

FIFTY-FIFTH ANNUAL REPORT  
OF THE BOARD OF TRUSTEES

OF THE

OHIO STATE UNIVERSITY

TO THE GOVERNOR OF OHIO

FOR THE YEAR ENDING JUNE 30

1925



THE OHIO STATE UNIVERSITY

HONORABLE A. V. DONAHEY, *Governor of Ohio, Columbus, Ohio:*

MY DEAR SIR—I have the honor to present to you the annual report of the Board of Trustees of the Ohio State University for the year ending June 30, 1925, as required by law.

Yours very truly,

LAWRENCE E. LAYBOURNE,  
*Chairman Board of Trustees.*



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## ANNUAL REPORT OF THE PRESIDENT

HONORABLE LAWRENCE E. LAYBOURNE, *Chairman of the Board of Trustees,  
The Ohio State University:*

DEAR SIR—I have the honor to present through you to the Board of Trustees of the Ohio State University for transmission to the Governor of Ohio, as required by law, the fifty-fifth annual report of the Ohio State University, for the year ending June 30, 1925.

### THE BOARD OF TRUSTEES

It becomes necessary to report with profoundest regret the death of the Honorable Benjamin Franklin McCann of Dayton. The minute adopted in December 1924 by the Board of Trustees is inserted here as an appropriate expression of the appreciation and esteem in which Judge McCann was held by his colleagues, and as a brief statement of the principal elements in his career:

"The Board of Trustees of the Ohio State University herewith places on record its appreciation of the character and services of Benjamin Franklin McCann and expresses its profound sorrow at his untimely death.

Benjamin Franklin McCann was born on a farm near Dresden, Muskingum County, Ohio, January 22, 1861, and received his higher education in Denison University, Granville, Ohio, where he graduated in 1886. After studying law in the office with Gunckel and Rowe of Dayton, he began the practice in Dayton, Ohio, in the year 1890. He served as prosecuting attorney from 1892 until 1899 when he was elected Probate Judge serving two terms, covering a period of six years. He became a Trustee of Denison University in 1894 and continued in service until his death. During the large part of this period he served as Chairman of the Finance Committee and had in charge the investment of the productive funds of the institution. During these years he directed a considerable amount of money toward Denison University and gave counsel as to its method of investment and the purposes to which it should be assigned. His service with his Alma Mater was characterized by the most conscientious fidelity, a large view of the place of the Christian College in American education and an unusual interest in all matters that pertained to the welfare of students and the progress of the University.

Judge McCann was appointed a member of the Board of Trustees of Ohio State University in 1913 to succeed the Honorable O. T. Corson and served until his death Saturday morning, November 29, 1924, at the age of 63 years.

Judge McCann very promptly caught the spirit of the Ohio State University. He had been familiar with educational matters through his Trusteeship of Denison University and a careful observer of the methods of education both in the public schools and in the colleges. The result was that he brought to the University a very genuine interest in the larger and wider field of educa-

tion in which the State University must engage. He was the owner of the farm previously owned by the late J. McLain Smith of this Board of Trustees and had for years been interested in the production of pure bred live stock. His interest in agricultural education was genuine, but that interest in no way biased his judgment or interest in the other fields of education. He was not a partisan by nature. His service to the University, therefore, was characterized by an open-minded integrity and fairness, and made him a man of unusual efficiency.

The personal qualities of Judge McCann were so attractive as to make him a much beloved citizen in the city of Dayton. Among the many tributes of high appreciation occurring in the local papers an editorial written by Governor James M. Cox in the Dayton News of Sunday, November 30, 1924, associating the name of Judge McCann with four great citizens of Dayton recently deceased, says:

"The influence of the life and character of Judge McCann held wide reaches. Modest, unassuming, unselfish, the fruits of his labors were in the realm of the law, the operation of two great Universities, the activities of the Y. M. C. A., local, state, national and international, and in the homes of those whose troubles and anxieties excited his counsel and aid. He was a composite of the poetic and practical, as tender as a child in his emotions and as brave as a lion in his moral concepts.

"In every circle men speak of Judge McCann in terms of endearment calling attention to his winning personality, his gentleness of spirit and the heroism of his courage. He was a great teacher as evidenced by the loyalty of a very large class of men in the First Baptist Church through his series of years. His services in the Board of Trustees will long be remembered as devoted to the highest ideals of education, a genuine goodwill toward his colleagues and all associated with him in University circles. It is fitting to say that a prince and a great man has fallen this day in Israel."

The term of the Honorable Charles F. Kettering of Dayton expired in 1924 but for reasons stated in the previous Annual Report, he continued in service until March 17, 1925, when he was succeeded by Mr. Julius F. Stone of Columbus, who had previously served the Board of Trustees from May 13, 1909 to March 21, 1917. These two men, therefore, exchanged places twice in their period of service in the Board. The term of service of the Honorable Oscar E. Bradfute of Xenia expired May 13, 1925, after twenty years of continuous service. He was succeeded by the Honorable Harry A. Caton of Coshocton. The Honorable Herbert S. Atkinson of Columbus was appointed to succeed the late Judge Benjamin F. McCann.

These repeated succeeding changes in the Board of Trustees have brought some hope of permanence in the future since the appointments are at a time of life when a considerable term of service may be expected from each of them. The greatest progress of the University was probably forecast when the Board of Trustees was characterized by a long term of service rendered through men whose devotion to the University and whose intelligence in its management increased with the years. The Trustees of Ohio State University carry the heaviest and most important responsibility of any group of administrative officers in the commonwealth. It is important, therefore, that continuity of service as well as character in the appointee should be provided through the appointments by the Governor of the State.



## THE MENDENHALL MEMORIAL EXERCISES

On April 16, 1925, the Memorial Exercises for the late Dr. Thomas Corwin Mendenhall were held in the University Chapel. The program included the following addresses:

Dr. Ira N. Hollis, President of Worcester Polytechnic Institute, Worcester, Mass.

Dr. Charles F. Marvin, Chief of the United States Weather Bureau, Washington, D. C., a student of Dr. Mendenhall, and an address in manuscript form prepared by Dr. Elihu Thomson of the General Electric Company, Lynn, Mass.

These addresses will be published in pamphlet form after the usual manner and will be available a little later for those who may desire them.

The exercises were all that could be desired on such an occasion and the gratitude of the University is officially accorded to all who participated in making the occasion so satisfactory. The presence of the son of Dr. Mendenhall, Professor Charles E. Mendenhall of the University of Wisconsin, and Mrs. Mendenhall, was a source of satisfaction to all.

## THE FACULTY

The Faculty has suffered loss in an unusual degree for the current year due to the death of a number of its members. Professor Frederick W. Ives of the Department of Agricultural Engineering, died July 5, 1924, as the result of a railroad accident on his return from the annual meeting of the American Society for the Promotion of Engineering Education, in Boulder, Colorado. Dr. Septimus Sisson of the College of Veterinary Medicine, after extended illness, died July 24, 1924. Dr. Yeatman Wardlow of the College of Medicine died suddenly of heart disease while engaged in an operation, November 21, 1924. Professor John B. Preston of the Department of Mathematics, after a long illness and some infirmities, died May 20, 1925. All these men were in service for a period of years and appropriate accounts of their careers will be found in the records of the Ohio State University Monthly. In this connection it may not be inappropriate to direct attention to the fact that during the past year the Alumni Association has lost four well known and distinguished members:

Edwin Erle Sparks, President of the Pennsylvania State College from 1908-1920, of the Class of '84.

George Smart of the Class of '86.

Benjamin Garver Lamme of the Class of '88.

George Wesley Bellows of the Class of '05.

I may also add that Mr. Elmer S. Baily of the first graduating class in 1878, and also the first student to register in the University, died April 25, 1924, at Waynesville, Ohio. *Elmer*

These announcements upon the list of alumni are made because of the unusually wide acquaintance they enjoyed and because of the striking fact that so distinguished a group of young alumni should pass within so brief a period.

## CHANGES IN THE FACULTY

A list of the more important changes in the personnel of the Faculty is submitted herewith not only as a matter of record but for the purpose of suggesting the wide range of the appointments as indicating the general de-



velopment of the University. A few of these appointments were substitutes for others but in the main they represent an increase in the teaching force.

Claude E. Anibal, Assistant Professor of Romance Languages.  
 John B. Brown, Assistant Professor of Physiological Chemistry.  
 Captain Hiram G. Fry, Assistant Professor of Military Science.  
 A. O. Heck, Assistant Professor of School Administration.  
 Lieutenant Chester A. Horne, Assistant Professor of Military Science.  
 R. W. Kent, Assistant Professor of Vocational Education.  
 George L. Lynch, Assistant Professor of Landscape Architecture.  
 C. C. MacDuffee, Assistant Professor of Mathematics.  
 Robert E. Mathews, Professor of Law.  
 Herbert A. Miller, Professor of Sociology.  
 Roderick Peattie, Assistant Professor of Geography (transferred from Department of Geology).  
 Charles Wells Reeder, Assistant Professor of Business Organization (transferred from Library).  
 Robert M. Salter, Assistant Professor of Soils.  
 A. P. Savides, Acting Professor of History of Education.  
 Colonel Arthur M. Shipp, Professor of Military Science.  
 Lieutenant Chester H. Smith, Assistant Professor of Military Science.  
 Edmund M. Spieker, Assistant Professor of Geology.  
 George M. Stephenson, Assistant Professor of American History.  
 C. V. O. Terwilliger, Assistant Professor of Electrical Engineering.  
 Vivian T. Thayer, Professor of Principles of Education.  
 R. L. Wilder, Assistant Professor of Mathematics.

#### PROMOTIONS

The following promotions will indicate also the development in the rank of a group of the younger instructors:

Theodore N. Beckman, Instructor in Business Organization to Assistant Professor.  
 Cecil E. Boord, Assistant Professor of Chemistry to Professor.  
 Charles T. Bumer, Instructor in Mathematics to Assistant Professor.  
 Jacob J. Coons, Assistant Professor of Medicine to Professor.  
 John D. Dunham, Assistant Professor of Medicine to Professor.  
 Sada Harbarger, Instructor in English to Assistant Professor.  
 Elmer G. Horton, Assistant Professor of Medicine to Professor.  
 H. M. Jacklin, Instructor in Mechanical Engineering to Assistant Professor.  
 Herman Koerper, Instructor in Obstetrics to Assistant Professor.  
 John W. Means, Instructor in Surgery and Gynecology to Assistant Professor.  
 John M. Montz, Instructor in Civil Engineering to Assistant Professor.  
 Hortense Rickard, Instructor in Mathematics to Assistant Professor.  
 Robert E. Rockwood, Assistant Professor of Romance Languages to Professor.  
 Karl W. Stinson, Instructor in Mechanical Engineering to Assistant Professor.  
 Eugene Van Cleef, Assistant Professor of Geography to Professor.  
 Luke V. Zartman, Instructor in Surgery and Gynecology to Assistant Professor.

The Faculty of Ohio State University does not differ essentially in its experience from other faculties in the Middle West state universities. Nothing suggested here, therefore, presents an unusual experience but it is important that the state should understand and appreciate the fact that the increasing demands for instruction in new fields, and the increased enrollment in existing fields of study call for a constant increase in the number of men and women who shall constitute the Faculty of the University. The departmentalization and specialization of education have combined to influence the preparation of young men and young women for the teaching profession. The day of the all around professor, as he has been known in the past, has practically disappeared. The result is that these men and women with specialized education

are more in demand and a higher range of salaries is required at the outset. This makes it apparently inequitable when comparisons are instituted between persons of acknowledged ability oftentimes long in service, whose salaries do not exceed and often do not equal the salaries provided for younger and less experienced teachers. The only cure for such a situation is an increased amount of money available for salaries so as to warrant the deserved and adequate recognition of men now in service. If the principle were adopted of paying these new appointments a lower range of salaries the result would be that adequately prepared men and women could not be secured and the University would need to drop to a lower level in its Faculty appointments. It is of the highest importance for the development of a Faculty that the newer and younger appointments shall be of the highest grade attainable in order that the general level of standards shall be maintained and advanced. The adequate recognition in salary of those long in service is another factor in this case which gives great concern to the administrative authorities. It is no easy task to double the size of a Faculty and at the same time maintain a level of efficiency. During the incumbency of the writer of this report the Faculty has been increased several fold and now comprises 183 professors, 153 assistant professors, 217 instructors, a considerable number of assistants, and graduate assistants usually appointed for two years and always candidates for an advanced degree, who are required to give a certain amount of service. The inevitable result of such a growth in a Faculty always is that a considerable percentage is made by all persons in the lower ranks who are young with limited experience and, therefore, bring to the University some more or less well founded criticism on the theory that a University student is entitled to instruction by a mature and experienced professor. This is not possible under the existing state of affairs in modern education. The Faculty, however, undertakes, in a limited degree, to supervise by way of counsel and advice the work done by younger persons. No complete justification of this procedure can be made from the standpoint of educational theory. The explanation lies in a doctrine of necessity due to a large body of students and the limited amount of money available for the employment of a teaching staff. The writer has repeatedly announced his belief, which is here expressed again, that the salary situation should be such as to provide at least a standard salary for all professors in the earlier period of their service to be continued through the strength of their years in service. If this policy were followed no great hardship would be experienced in smaller salaries for younger appointments and a small reduction from the maximum on the part of those who are approaching the period when their service draws to a close. A sound practice in education would retain in the service of the University men advanced in experience and years, would limit their obligations in the classroom and possibly a reasonable reduction in their salaries. The equities in the situation would suggest that a man should receive his maximum salary while in maximum service. It is doubtful whether men ought to be expected to render their maximum service in their latest years. A proper conservation of the energies of a Faculty will sometimes make an adjustment of salaries and service an important issue.

## DEGREES

Appendix 5 gives statistical information of interest to students of education in the matter of the distribution of degrees, courses of instruction and



similar data. These are allied, of course, to the enrollments as found in Appendix 6. In the year 1900, the first Commencement of the present administration there were 137 degrees granted. In the year 1925, the final year of the present administration the total was 1615. Measured by the graduated class this shows a development altogether unanticipated and one which must be gratifying to those who have administered the University and to those who have been generous enough in their point of view to make an increasing provision for the needs of the University. Usually legislators and state officials look back upon their support of the University with satisfaction and pride. If space permitted in this report the attention of the State could be drawn to a very steadily increasing asset as represented in the number of men and women who have received some benefit from University training. Aside from those who have received degrees there has also been a considerable number of men and women who, for one reason or another, have profited by one or more years of University experience. The total influence of the University, therefore, upon the life and progress of the State of Ohio is impossible of determination. It cannot be forgotten, however, that this steadily increasing number of more or less well educated men and women constitute the most reliable asset of the State.

#### PHYSICAL PLANT

It is neither possible nor desirable to attempt within the limits of this report to set out a complete account of the condition and progress of the physical plant. Nevertheless a few things may be said to intimate the general condition. For more than 15 years there has been a steady development of the roads and grounds. Surface roads and main sidewalks have steadily increased. During this period a considerable number of buildings have been erected. The plan of the Board of Trustees has been to carry with each new building something like adequate means of approach and transportation over the campus by way of good roads and good sidewalks. Nothing will strike the former student more forcibly than the great changes that have occurred in this period. They have come along steadily without any great development in a particular year until all the main highways of the campus are accessible by desirable pathways.

During the past year the agricultural group of buildings, west of the river, have been brought to a state of practical completeness. Some roads have been in process of preparation. The new bridge over the Olentangy has been completed and made available for service so that the way is now open to bring the buildings west of the river into very easy and rapid approach. In this connection it is appropriate to say that the acquisition during the last biennium of the Waterman Tract and the appropriation made for the purchase of the farm owned by Miss Mary E. Hess brings the estate of the University to 1100 acres. At the beginning of the present administration no land was owned west of the river. The entire amount owned by the University was 325 acres. If it had not been for the purchase of this land west of the river the College of Agriculture of necessity would have been removed to some other location. As it now is, with an estate of about 1100 acres which cannot be invaded without the consent of the University and the Legislature, the perpetuity of the College of Agriculture has been provided for. No movement in 25 years has been of more fundamental importance.



The erection of the Stadium and the assignment of substantially 100 acres east of the Olentangy River for recreative purposes is another significant feature in the development of utilization of acreage which amounts to an extension of the University campus. Practically 425 acres or a little more are now used for campus purposes. The purchase of about 40 acres east of the Olentangy reaching south to King Avenue, made during the period of the war, was a very happy acquisition to the land assets of the University.

The most outstanding feature probably of the campus in the way of buildings was the occupancy for the first time in the fall of 1924 of the new Administration Building. This is one of the well furnished and adequate buildings of the campus, built around the experience of 25 years and providing every known facility in a reasonable way. The upper story was turned over by the Trustees to the Faculty for use as a Faculty Club. An organization under the above caption was made and a most satisfactory modern club for the use of the Faculty and the members of the club has been organized and the building equipped at the expense of the club. The patronage for the first year of this club demonstrates that all existing need is appreciated more or less dependent upon the person's point of view. Few could be found at present who do not see the high degree of utility in this organization. The building in its entirety has been subjected to very few, if any, serious criticisms. The enthusiasm of the executive and administrative forces as well as of the Faculty in general has more than justified this distinct effort to put administration near the center of the campus, and to provide a headquarters for practically all the central administrative services.

The Commerce Building, constituting the headquarters for the College of Commerce and Journalism was completed and entered for the first time in the Autumn Quarter of 1924. This building is not a completed building, but the facilities already furnished in that portion which has been erected are sufficient to provide reasonable accommodation for the College in its present state of progress and development. No doubt the organization of the Bureaus of Business and Social Research when developed will make increasing demands upon the building so that the construction of the unfinished portion will be a problem for the near future.

The Engineering Experiment Station Building and the building for the College of Education are both in process of construction and will be occupied during the next academic year. These two buildings represent a distinct milestone of progress as well as of permanence in the two important functions that are now to have a permanent place on the campus. The College of Education has steadily grown in its importance and in its service. The Engineering Experiment Station has been long cherished as a hope in the minds and hearts of the Engineering Faculty. Now that the building is approaching completion and considerable equipment has been provided there is every prospect that engineering experimentation shall have opportunity not excelled in many places throughout the country. The value of such a station will be found in its stimulus especially to the younger men to carry on research work, and in the further fact that the station will constitute an important center around which all the physical sciences will group themselves naturally and easily.

The Chemistry Building so far as completed was occupied a year earlier, but has been so far developed as to make it possible now to transport a large portion of the work in chemistry from the old Barracks and the original Chem-



istry Building to the new quarters. The Legislature has provided \$300,000 for an addition to the present construction and this when completed will still further increase the facilities for chemistry. The prospect is that within a few years at the most the physical provision for chemistry will be substantially equal to that to be found anywhere in the country.

The experience already developed in the use of Pomerene Hall serves as a basis for the request that the building should be completed. It is gratifying to know that the Legislature has made provision for this request and has provided the sum of \$450,000. During the biennium, therefore, we shall expect to see Pomerene Hall completed and occupied.

Mack Hall, in honor of the late Honorable John T. Mack, 21 years a Trustee of the University, has been completed and was occupied in October, 1923. The tablet was placed in the hall and the formal opening of the building took place May 24, 1924. All members of the Mack family—Mrs. John T. Mack, two sons, and three daughters, that were able to be present—ministered greatly to the pleasure of the University officials. This building is occupied to its capacity and only suggests that a further provision for young women would meet with an enthusiastic reception.

Hamilton Hall was occupied for the first time in the Autumn Quarter of the current year. The College of Medicine was removed from Park Street to the campus, as was also the College of Dentistry. This puts every college activity on the campus, where we believe it belongs. The Legislature made provision for a further extension of Hamilton Hall so as to meet the anticipated provision for both medicine and dentistry in an adequate way. This building when completed will probably serve the purposes to which it is assigned as well as any similar building in the Middle West. It has been substantially but not expensively constructed. The aim has been to provide every possible facility in a standard manner so that teaching and research may express themselves with efficiency. The provision by the Legislature for extension to the hospital facilities will make it possible within the biennium to meet that phase of medical service in a very satisfactory manner. While the University has always had up to this date a very large building program in anticipation, it is gratifying now to see that on the campus substantial provision has been made for the most of the colleges of the University as administrative organizations. The further development will be in providing classroom and laboratory facilities, the enlargement of the Library Building, the reorganization of certain buildings due to construction of others, and in general keeping the plant in a state of good repair. The fact that fireproof construction has been required for a number of years has made the most recent construction so permanent in character as to warrant the belief that the University has entered quite actively upon a stage of permanence so far as the physical plant may be considered.

#### THE POWER HOUSE

The changes since the erection of the new Power House was begun are significant as an effective physical plant. The building is completed in part. The equipment is installed in part. The main activities, however, will be transferred to the new building for the Autumn Quarter of 1925. It will probably require two or three years more and additional appropriations by the next Legislature to complete the building and its equipment so that the Power House will be able to serve the entire University. Great credit is due the



Chief Engineer, Mr. W. C. McCracken, for the manner in which he has directed and supervised the plans and the construction of this building and for the efficient way the portion already erected has been equipped. The power plant runs so smoothly that nobody is conscious of the fact that there is such a plant. The superintendent deserves the highest commendation which is here freely given.

#### THE REPORT OF THE DEANS

The reports of the Deans of the several colleges as usual set out the status of the college in the group of colleges constituting the administrative phases of the University life. The statements from the Dean's reports will ordinarily provide the statistical information desired and reference to the statistical reports for the University at large will supplement these so that the President's report needs only to make such general comment as experience may suggest.

#### ATTENDANCE

The complete roll of the University mounts a little each year. In some of the colleges there is a slight decline for a year or two and then the enrollment recovers. It is not always easy to determine the ebb and flow of student enrollments. In agriculture the decline in enrollment is country-wide and has been made the subject of public comment in newspapers, reports, and papers before conventions. The fact remains, however, that the largest single source of supply of students at the Ohio State University continues to be from the families of farmers. The College of Agriculture educates a portion of these. The other colleges share in the patronage of the boys and girls from the farm. The enrollment in the College of Agriculture is no doubt influenced by the general economic conditions. The fact should be noted that the ordinary young man without capital and with a reasonable education finds himself more in demand for other occupations than for agriculture. His lack of capital makes it difficult for him to equip a farm. The uncertainty of tenure presents a problem which this country has not yet met. In England not infrequently a man of considerable wealth will occupy a rented estate for a generation. In many instances the estate is passed on to his sons on much the same terms as to the father. This is due to the fact in English families land is looked upon as a permanent investment and endowment for the family. Too often in the United States land is a mere real estate speculation. Non-resident owners buy and sell whenever money can be made. The family who live on a farm for the purpose of having a home and of conducting the farm as a business enterprise become permanent as in case of ownership. In case of tenancy the failure to secure permanency discourages any continuity of life or plans. These young men and their wives have been influenced in some degree by their education and quite naturally view farm life with some distrust unless there is some assurance of permanence and a reasonable financial stability. If young people are to follow the popular trend of thinking and educate themselves for careers we should naturally expect that an uninviting situation would fail to attract. The fact that farming is a source of perpetual discussion in political circles does not help the case. The reports of prosperity do not always find an echo in the experience of farmers. Those who deal in the mild form of calamity howling tend to discourage. The College of Agriculture tries persistently to set out before the students a reliable discussion of farm problems and of farm life. Those who in response to this instruction



undertake the career of farming usually develop into the most stable and intelligent element of rural life. The stern facts, however, of high prices for land, for farm equipment, with no assurance that the prices of farm products will warrant such investment cannot be ignored. They stare the young man squarely in the face. The observation can readily be made in traveling through a state like Ohio that the farms at present are occupied in an unusual degree with men and women well on in the middle years of life. Farm labor does not attract young unmarried men as it did a generation or two generations ago. These and many other considerations are more wide spread in the minds of the young men and young women of the country than most people are aware of. On the other hand the factor of ready money, agreeable employment, and even the matter of wage has undue emphasis. The long perspective of a lifetime has not yet become a controlling factor in the young men and young women who flock to our stores and shops for employment. The fact remains, however, that wisely or unwisely the city attractions are unusually effective in drawing large groups of country-bred boys and girls into city service. The fact, as Dean Vivian has pointed out, that the city must be rebuilt once in every four generations by the rural populations opens another phase of the issue. The fact that the city is not able to perpetuate itself makes a tremendous call on the rural districts for young men and young women of sound body and of sound mind.

These fluctuations in enrollment, however, are not to be regarded as discouraging or without hope. The high mark in enrollment in agriculture a few years since was probably in excess of what the situation really justified. The development of the special agencies represented in colleges, agricultural high schools, experiment stations, county agent service, not to mention others called for a large supply of young men who had collegiate training in agriculture. In a somewhat similar manner Home Economics came into the horizon and provided a vocation for a large number of young women both in the city and in the country. The salaries paid for this service were higher than for other fields in vocations where the educational requirements were quite as high. That day is passing. All these activities are being tested by the ordinary law of supply and demand and the pay for service in these different fields will steadily tend to find the same general level.

The important changes in rural life make it reasonably clear that the farm population throughout the country will steadily decrease. The improvement in methods of production make the individual farmer more effective. So long as these conditions continue the tendency will be for land to carry as high a value as returns will warrant. Prices for farm equipment will tend to maintain a high level and the efficiency of the individual farmer tend to reduce all surplus population on the farm and send it to the city for service. These considerations along with many others provide many of the professional men from the sons of farmers and many useful women from the farm become the most effective agents in social service in the city.

#### SUPPLY OF TEACHERS

Not many years since there was a failure in the supply of teachers. This was due to the demand in other circles and to the relatively low wage paid for teaching. The better organization of the schools in the last few years together with the advance in salaries has brought into the teaching profession a supply that is now practically equal to the demand. The fact that the ma-

jority of the teachers are women, whose teaching career is a few years at the most, makes the annual supply of teachers a persistent necessity. Men being somewhat more permanent in the teaching profession find teaching positions for well equipped young men less frequent in the public schools than for young women. At present, however, there is a well defined tendency to increase the number of young men teaching in our high schools in order to preserve a better balance in the teaching force. The decline in attendance some years since in the normal school courses was probably due to economic considerations. The fact that these normal schools now require standard college entrance requirements has brought the whole question of professional education to a more stable basis.

#### COMMERCE

In the field commonly known as Business Education there has been a marked increase in enrollment. This is due in the first place to the fact that collegiate courses have been developed as contrasted with the older conception of an elementary training in bookkeeping, stenography, and similar vocational courses. A further consideration is that the large activities of the future lie not in production but in exchange and distribution. The large profits of society accrue to the people dealing with exchanges. The whole field of transportation, markets, specialized production, and the organization of business as a great public service rather than a private enterprise opens up an inviting prospect for a business career. The entrance of women into business circles in recent years brings to the collegiate courses in commerce groups of young women who 20 years ago would never have thought of an education in business management or of preparation to serve in organized society. The fact that these courses usually carry some education in social administration brings the student into contact with the social activities in modern society having to do with the management and administration of benevolences, philanthropies, and all forms of social service in probate courts, juvenile courts, and in the wider field of social reform. The enrollment, therefore, in these courses has increased because parents as well as children believe that such an education opens the door to an attractive life in public and social service.

The courses in journalism make a steady appeal for the primary reason that instruction in English in the high school and college has so changed its form as to render writing a desirable ambition. The changed conditions in the offices of great city dailies and also in the papers of the smaller cities have brought about an increased demand for young men and young women with a college education and special training for journalism. There is no prospect that this call will ever be less imperative. These students in rare instances may become literary writers, but in the great majority of instances they will be efficient agents in providing the daily reading for the increasing multitudes who patronize our papers and our current magazines.

The student roll in the several divisions of education remains a pretty steady factor. Competent authorities have said that by 1930 there will be a great shortage in the number of men trained in engineering education. Estimates as to the number of men needed at that time may not be accurate or reliable, but they all point toward the fact that the supply will not be equal to the demand. Engineering education has undergone a considerable amount of discussion since the war period and there seems to be a recurrence to the theory in vogue 25 years ago when men believed that a college education in engineering as in many other subjects should result in the immediate prepara-



tion of a graduate for a particular place in the world's markets. A few years later we were told that the foundation courses and the subjects lying at the basis of engineering needed more attention and increasing emphasis. The educators seem to overlook the fact that the average man with a college education can learn something after he leaves college. This is an important discovery to a great many people. In it, however, lies the hope that thoroughly well trained engineers will find an important and increasing place in a highly organized society. The tendency to substitute some elementary and some more or less unrelated study in economics, or some alleged cultural subject, will probably produce an inferior engineer and a citizen whose liberal culture will not quite meet the demands either of the technical or liberal field of activities. An engineer first of all is a man severely trained in exact sciences like mathematics and the application of mathematics as in physics and electricity to the constructive activities of business. No amount of generalization will ever serve as a substitute for these exacting requirements. The engineer must always face his own failures or successes. Many professions can escape their own blunders or run away from their responsibilities, but the engineer stands or falls on his professional accuracy and precision. He deals with material things that can be seen and tested. His work, therefore, must stand the test of the plumb line and the sunshine. No excuse will be accepted for a blundering engineer. The lawyer may cost his client a fortune or deprive the penitentiary of a desirable resident and society have very little to say and nothing that it can do. The engineer, however, can be brought to judgment every day. Few professions are so insistent on their exactions as the engineering profession. Mere average men, therefore, have a small place in a profession of such high and exacting requirements. The recognition of this fact limits the number of students who secure an engineering education and at the same time makes a strong call upon young men who are willing to assume the responsibilities of life.

#### A LIBERAL EDUCATION

In the heart of the country among all educated people there is a persistent feeling that a college education represents something of liberal culture. The College of Liberal Arts or by whatever name it may be called, makes an appeal to such people in the belief that a liberal education does something for a generation that no other kind of an education can do. The fact that this type of education commands a greater number of students than any other, and that the College of Liberal Arts retains its place is pretty strong evidence that the heart of the people is with a liberal education for a considerable number of youth. Less than a generation ago college presidents were writing and raising the inquiry as to the destiny of the college. These men failed to understand that the college was not necessarily the College of Liberal Arts. They also failed to understand the tremendous development that education must have in a growing civilization. There are thousands of college bred men today who know nothing about a College of Liberal Arts. There will be increasing thousands of such men and women in the future. Nevertheless, there will remain a large body of young men and young women in every generation who will find their way through the College of Liberal Arts as satisfying their desires and ambitions for complete living. The fact that the College of Liberal Arts has been under such adverse criticism by its own officers for a generation has raised a doubt in the minds of many other people.



Happily these doubts are dispelled despite the adverse comments of the advocates of liberal education. About the poorest argument for classical education that could well be constructed is usually found in the papers of those advocating the classics. There is a sense in which the classics are their own defense. It is equally certain that a liberal education as seen in cultured men and women constitutes the real reason why the masses of people continue to believe in a College of Liberal Arts. On a campus like the modern state University there is an obvious tendency for one type of education to criticize another, or for one type of education to come in competition with another. This is not altogether unfortunate but it furnishes occasion for discussions that develop more heat than light upon the general subject of educational objectives. It has resulted in artificial, and sometimes superficial, devices to persuade us into the belief that we are doing something which nobody ever ought to do. An over emphasis on scholarship with an under emphasis on education and liberal culture has misled a great many men and women as to the function of a College of Liberal Arts. The very marked tendency also to put all the emphasis upon the inefficiency of the student has served as a smoke screen to protect inefficient and incompetent teaching. Liberal education is more frequently caught than taught. A College of Arts needs not only scholars but teachers aroused with a spirit of enthusiasm akin to the missionary spirit that sends men to the ends of the earth. The technical institution can say to its students that certain definite ends shall be accomplished after a definite fashion but a liberal education can never be measured in terms of the definite and the precise. If that were possible it would cease to be a liberal education. Above all other things a College of Liberal Arts deals with the enlargement of the intellectual horizon, the social vision and the appreciation of the things of the mind and of the spirit. It deals not simply with physics or metaphysics, but with the great issue of esthetics and of a wholesome philosophy of life.

The fact that in the modern rush the College of Liberal Arts has drifted away from the narrow and prescribed curriculum of a century ago has had an important bearing upon the present significance of liberal culture. No one would desire to return to the earlier days nor would many people be willing even to offer as one opportunity a curriculum prescribed 75 years ago. The former things have passed away. The fact remains, however, that the problem of providing a liberal culture to such students as have the taste for it has not been adequately met. Honor courses, encouragement to do graduate work, and other incentives are all good and to be highly commended but they do not reach the real issue involved in that kind of culture and liberal thinking which comes from magnanimity. We need a great minded teacher if we are to inspire a competent student in the fields of culture. The first issue of a University, therefore, is to develop its Faculty in magnanimity, generosity, world mindedness and cultural living. Such a Faculty will produce liberal education in spite of subjects they may undertake to teach. The personal contact with such men or women, who in turn may introduce their students in a just way to the most liberal minds of the centuries cannot fail to do something to perpetuate a love for the beautiful, for the cultured, for the refined, for the intellectual life and for a high spiritual adventure. The problem of liberal education, therefore, just because it is so beautiful and indefinite constitutes the greatest issue before any Faculty of instruction. The dan-

ger to liberal education lies in rattling the machinery of education while failing to understand that personal contact is the key to culture. Long ago Solomon said "As iron sharpeneth iron; so the countenance of a man his friend." There is no substitute in the fields of culture for the personal contact with the great minds and the great hearts of the centuries. This is something more than can be tabulated in a Registrar's office. Two factors are said by men of long experience to enter into their education. First, the instruction and information immediately received and second, the associations of college life with Faculty and students and books. At the outset the first factor is decidedly the more effective. As the years pass, however, these men declare that it becomes less effective and that the great and determining influence in the later years of life is the value of association. No stronger appeal could be made, therefore, in a College of Liberal Arts than the appeal that comes from large mindedness, generosity of thinking, and refinement of taste.

#### THE COLLEGE OF PHARMACY

The feature in connection with the report on this college for the current year demanding a statement is the experiences occurring during the winter.

On Saturday, January 31st, the University was shocked at the announcement of the sudden death of Mr. Charles H. Huls of Logan, a Senior in the College of Commerce and Journalism. On Sunday, the first day of February, the startling announcement was made that David I. Puskin, a Junior in the College of Commerce and Journalism, had suddenly died. Immediate attention was brought to these two cases and the preliminary assumption was that the death of Mr. Huls was due to Tetanus and that of Mr. Puskin to Meningitis. These two assumptions aroused a state of great anxiety as to an impending epidemic among the students.

On Monday, February 2nd, G. Delbert Thompson of Canton, a Senior in the College of Commerce and Journalism, while in one of the stores downtown was seized with convulsions similar to those which preceded the death of both Mr. Huls and Mr. Puskin. He was promptly sent to the University Hospital and an investigation begun by the officials there. Through heroic efforts the life of Mr. Thompson was saved. Mr. Timothy J. McCarthy of Columbus, a Sophomore in the College of Commerce and Journalism; Mr. Harold E. Gillig of Toledo, a Sophomore in the College of Arts, and Mr. Robert H. Ross of Bellevue, a Freshman in the College of Arts, also fell ill. The fact that these students had capsules in their possession led to a searching investigation in the dispensary of the College of Pharmacy and every effort was made to discover the causes leading to this most serious and most deplorable experience. It was soon discovered that the cases were due to strychnine poisoning. A few capsules were found also in the possession of the students. Analysis of these capsules revealed the fact that they had been filled with strychnine. A further investigation developed that only a few of these capsules had been available and that not a single one remained in the receptacles in the dispensary. Having determined the questions of fact as to the presence of these capsules filled with strychnine and as to the limited supply of them, the investigation then turned upon the sources of supply. That question is not satisfactorily determined to this date. The issue still remains whether a limited number of these capsules had been distributed through the ordinary channels in the dispensary. The Columbus Police authorities were called into action and through an extended investigation conducted by the Police Prose-



ctor, Mr. John J. Chester, Jr., every effort was made to discover any possible information as to the facts involved, the motives that might be present and any other facts that would assist in reaching a conclusion as to how these capsules of strychnine could have been filled and dispensed.

Somewhat later the Governor of Ohio instituted an investigation through the State Board of Pharmacy in charge of Mr. M. N. Ford. This investigation discovered no new facts save that the capsules used were of a slightly different size from those used in the University dispensary. This difference was so slight as not to be observed casually. It required an examination to recognize the difference. This at once raised the question whether these capsules could have been procured elsewhere than the source from which the University secures its supply and whether by some device a limited number of these capsules had been deposited in the receptacle in the dispensary. The absence of any motive for such criminal attempt upon the lives of innocent persons made this problem extremely delicate and difficult of determination. The University has not been able to trace any evidence of a purchase of capsules that would explain in any way the limited number of a different size from those in ordinary use, nor has the University been able to satisfy the minds of the investigators as to how such a limited number of capsules should find place and be distributed. None of the physicians associated in any way with this experience could provide any rational explanation of the situation. The University officials were pained and mystified by the whole procedure. The investigation by the police authorities was as complete as they could make it. The further investigation at the Governor's request has still left all the important issues just where they were. No evidence was produced to show that any one had any knowledge of the fatal capsules as to their existence or their source. One student whose service was in the dispensary in the ordinary routine remembers having given capsules to Mr. Puskin. There is no evidence, however, that he knew that these differed in any way from the ordinary capsule. In all the investigations made there was not the slightest approach to identification of any person criminally related to this experience. No blame could be attached to the administrative or dispensing officers in the College of Pharmacy. No motive could be discovered for any student to make such an irrational and criminal attack upon innocent lives. It seems impossible to tolerate the theory of an accident or of a careless method of procedure. The whole situation would seem to indicate deliberateness in the filling of those particular capsules. The history of criminal acts of this sort leads one to believe that by some inadvertence the future may provide a clew leading to a solution. The University will continue its effort so far as possible to discover a clew to this mysterious and perplexing situation. Such a disaster in the University experience lingers in the minds of University officials impossible of eradication. No responsibility could be located on individuals or groups of individuals for the occurrence. Speculative minds indulged in imaginary situations as always under such trying and distressing circumstances but no approach was made toward apprehending a guilty person, or to a reasonable explanation of any motives that might lead to such a terror striking experience. On the assumption that it was a deliberate act, some one or more persons unknown at present, carry the grave and terrible responsibility. If by any means the future shall disclose this person or persons the University will recognize its obligation to bring them to account. At present nothing more can be done than to record officially the profound sympathy which all Uni-



versity officials and students felt toward the unfortunate and bereaved families, and also the feeling of resentment that such a deed was possible among students.

The official reports submitted to the President of the University from all University officials having to do with the investigation are filed as a part of the permanent records in this case and will be available at any time for properly authorized persons to inspect.

#### THE PROFESSIONAL COLLEGES

Recent years have seen what may be described as a practical revolution in professional education. The College of Law, the country over, has recognized the importance of underlying education and insists with propriety that maturity of mind and some intellectual power are necessary for the successful study of the science of the law. Accordingly all high-grade law colleges of the country have made a two years' collegiate education the required entrance. The tendency will be to extend this requirement as the age for high-school graduation lowers. There is a definite time in life when people ought to enter upon their professional careers. An education that delays this entrance too long produces stale minds and puts men into a profession at a time when they have lost something of their ability to adjust themselves to the practical conditions of professional life. This is perhaps a philosophy explaining why a considerable number of teachers fail of the highest success. They become rigid and fixed in their ideas, and become somewhat dogmatic in their state of mind. About the last thing that should characterize a growing profession and a growing young scholar is dogmatism. It is almost as bad as the insufferable egotism and conceit sometimes manifested. The social situation in modern society requires that the opportunity for professional service should come not later than the middle twenties. The tendency in law and medicine is to produce too many men and women whose opportunities for service have been delayed until thirty years of age. This is unfortunate for society, for the profession and for the individual. As soon, however, as the educational processes can be made more efficient and education can be taken, as doubtless it will be by college graduates themselves as an organized endeavor for their children, a year or two will be saved in the educational processes and the years of youth spent in acquiring the education suited to youth rather than the more advanced years with intellectual rigidity. The so-called "teen" age is the period of acquisition. A student at the age of 22 or 23 has certain advantages over the adolescent youth but in the long run he misses a great deal and rarely makes as satisfactory a career as the boy whose intellectual and physical growth has been steady and perhaps even rapid. It should never be forgotten that schools and especially colleges are for boys and girls not for men and women. The professional school deals with the opening years of manhood and womanhood.

The standards of education are somewhat technical in the Medical College. They are exacting and put a large amount of emphasis on the informational side of the curriculum. On the other hand the College of Law significant for maturity deals more exclusively with ideas and ideals and with the practical phases of life. It is probably true that the most liberal education in a modern university finds its expression in the College of Law. Medicine is chiefly a technical school under professional titles. Its affiliation is with engineering and vocational courses rather than with culture.



The College of Veterinary Medicine as an institution throughout the country has suffered in certain directions because the profound changes in the increased use of machinery have brought about the relatively less importance of the veterinarian as a practicing physician for animal life. On the other hand the large development of the service of inspection has brought a demand for well-trained men in this general field. The tendency also to concentrate in cities, with the development of good roads has made it possible for the needed rural service to be secured in the smaller cities of the State. The fact, however, that veterinary science has made all its requirements more exacting and that the level of scientific achievement has been raised and that the professional requirements are approaching higher standards, have tended to discourage the entrance upon this career of the class of students that a generation ago looked upon Veterinary Medicine as a purely vocational equipment. The demand for students in Veterinary Medicine today is very much higher than it was some years ago. There will be no tendency to lower this level but a revival of attendance and interest is sure to follow for the reason that organized society dealing in very large outlines with animal life will make insistent demands for competent men. Veterinary Medicine is so closely allied to the ordinary courses in medicine in many particulars, that the scientific standing of men in this profession will be increasingly recognized and the service to society will bring greater appreciation than hitherto. The educational standards eventually determine the quality of men and the character of service to be rendered. Society has never yet had a sufficient number of high-grade men to meet the professional demands of a generation. Improvement in service depends upon the quality of men engaged in it and this in turn depends upon their scientific and social point of view. Professional men determine the standards of their profession while society drags along in its effort to appreciate and understand the significance of these men and their service. The veterinarian of the future will be measured largely by his scientific attainment and his public service. Society cannot absorb in its activities an indefinite number of men in such a calling but the law of supply and demand together with the professional standards will keep the flow of students more steady than in the past.

#### THE GRADUATE SCHOOL

One of the gratifying features in the experience of the Ohio State University for a decade more or less has been the development of graduate work together with the eagerness with which students have applied for this work. The University has not undertaken to offer graduate work in every single department or college, but chiefly in those departments where there has been an equipment of men and laboratories and laboratory facilities that would warrant self-respecting students and a self-respecting faculty to undertake to certify to the world a degree in graduate work.

In the field of Chemistry the graduate work has been unusually well organized. The University has been able to enjoy the services of competent men whose experience with graduate students has proved to be highly satisfactory. The fact that persons receiving the Doctor's degree in Chemistry have promptly found important places in universities and colleges as well as in the industries, has been a sufficient justification of the work undertaken.

In the field of Education the effect of the graduate facilities offered has been to stimulate very widely a desire for the Master's degree in many of

our high-school teachers and by this process the quality of the public education has been noticeably improved. This arises not merely from the fact that certain teachers have enjoyed graduate work but from the additional fact that School Superintendents and Principals have been stimulated to the appreciation of a more scientific view of education and of the school. The programs in the National Education Association and in other educational organizations throughout the country have all lifted the standards of education and bring a new emphasis upon the importance of the graduate point of view as well as of familiarity with the science of education. In addition to this the increasing number of candidates for the Doctor's degree in the field of education has been exceedingly gratifying.

In another distinct field where candidates for university positions pursue graduate work as a necessary preliminary for permanence in university teaching there has been an improvement in the quality of the men and women who undertake such courses of study. Much yet remains to be accomplished in the general field of education both as a science and as an art in college and university faculties. A certain contempt for professional training and for any intelligence outside of the particular field in which a person desires to work has hindered the progress of collegiate education and in a measure defeated the highest achievements. There is coming steadily into the horizon of the intellectual world a demand that the leaders in higher education shall combine personal character, adequate scholarship and standards of achievement that will bear the test of careful scrutiny and the strict test of everyday experience. The next great forward step in higher education will probably be a more careful selection of men and some supervision by faculties themselves of both teaching and research. The day of haphazard methods steadily passes while the day of intelligent testing of results dawns. Too much reliance should not be placed in the unrelated individual. Higher education should submit itself to careful organization, intelligent supervision in order to prepare men and women for the closer co-operation in a highly organized society. In fact this organization becomes more complex from year to year. It places at the door of those engaged in higher education the opportunity and the obligation to furnish ambitious and competent study, the opportunity for self-development and for efficient social service. The Graduate School more than any other organization about a university must carry the flag of the best ideals in the struggle for a better society. The technical and professional equipment of students in such work is of the highest importance. These things, however, do not supersede or in any way take the place of the higher idealism which finds expression in a service that only character can render.

#### THE PRESIDENT'S DIVISION

As the University is organized certain activities are administered immediately by the president. The chief among these are listed below for the purpose of making clear some of these functions:

##### MILITARY ORGANIZATION

From the very beginning the administration of the military education has been through the President's office. The general principles and rules have been provided through the Trustees, the Faculty, and the War Department. Military organization is essentially a line organization. The requirements of the Government make that form more or less necessary. The re-



sult is that the President of the University is the Commanding Officer to whom and through whom the military organization expresses itself.

In recent years, since the National Defense Act of 1916, the Government has provided for a better organization for military instruction in colleges and universities than existed prior to that date. This organization has proved its efficiency and has brought to the country from year to year a body of young men who have benefited by some military theory and practice and at the same time have acquired a sane and sensible view of the place of military instruction in a democracy where the chief aims are not war but peace. Intelligent observers and interested educators have noticed the importance of this type of education and have recognized the contribution it makes toward good citizenship. The increased provision of the Government, therefore, has been appreciated.

Recently, i. e., during the closing months of the current year, however, there has been a tendency to restrict appropriations by Congress and to limit the number of assignments to these institutions. The principle is thoroughly unsound and the proposals of the Government have no justification whatever. The methods proposed are a body blow at this type of education and if persisted in will within a decade or perhaps even within half that time render the military organizations, especially the land-grant colleges, something of a byword. In a country where military instruction has had a struggle for existence, the Government itself can find no justification for defeating its own ends. If opportunity were offered it would not be at all difficult to abolish the entire scheme from these land-grant colleges. The Government should recognize that fact. These colleges will not long entertain and maintain a type of education for which apology will need to be made. Institutions like the Ohio State University which have brought their efficiency to a point where the Government has classified them as distinguished colleges will not long cherish the idea of reduced efficiency. There is little if any excuse or justification to be offered for a co-operative effort by the Federal and State Governments where lower standards are enforced by the reduced appropriations, insufficient staff, and the general lowering of the importance and dignity of military instruction. The tendencies manifested at present demonstrate the basis of fear in many minds as to the permanent policies of the Federal Government in matters of education.

#### PHYSICAL EDUCATION

As set out in the annual report for the year ending June 30, 1924, the entire subject of Physical Education is administered through the President's office. This includes the general issues of physical training, of recreative sports, of corrective processes, of courses of instruction for prospective teachers, of intramural athletics, and of intercollegiate athletics. This last field covers in the main the familiar games of baseball, basketball, track athletics, football, and occasionally some minor sports. The organization is divided into two divisions—one for the men and one for the women—although in the courses looking toward the preparation of teachers and in some others the men in the department carry classes involving both sexes just as in other fields of education. At present there are both men and women engaged in this field who are members of the University Faculty. They are all persons of university training and several of them hold degrees in medicine. The aim of the University is to properly relate these activities and so distribute the

responsibility for sports, for intercollegiate games, and for credit courses in the University as to bring to the entire student body some participation in the field of physical education. The chief objective, however, is to impress upon the mind of the student the fact that the well organized, well developed, and well disciplined body furnishes the basis for efficiency as a student, for effective service as matured men and women, and for a proper social outlook upon life. There is no class of educated men and women in the country whose social ideals and whose point of view is more acceptable than that of the well educated, high minded men or women who devote themselves to the field of physical education. The opposite view is widely entertained by the average citizen. The future, however, will carry a high appreciation of this service as the fruits are gathered in matured manhood and womanhood of the present generation. It is easy to see that the teaching of music in the public schools has not only increased the ability of men and women to join in the songs of the community and the praise of the church service but it has developed in them a certain state of mind that makes a cordial welcome for many forms of musical culture. This has come about without the noise of trumpets or organized publicity. In some such way the parents of the future, who appreciate the values of physical culture, will come to understand better than we now do, the value of training in physical discipline, the practical knowledge of hygiene, sanitary measures, and of physiology.

#### STUDENT HEALTH SERVICE

An allied activity in the University is listed under the topic Student-health Service. Aside from the service immediately rendered there is constantly before the student body the daily invitation to be physically fit to prevent the inroads of ordinary infections like colds and other temporary passing ailments. Among the most valuable results in such an organization is the unknown fact that such a service decreases by a considerable quantity the hours and days lost from temporary illness and the interference of the ordinary duties that arise out of such temporary conditions. The art of ordinary living is so neglected by the average citizen as to make a considerable contribution to the fact that most people are less than 40 per cent efficient. Society will not be highly efficient until it is physically sound and until it has learned reasonably well how to take care of its ordinary daily bodily efficiency.

The function of a president, therefore, in attempting to administer this basic subject is to make the necessary financial provision, to see to it that the selection of the men and women in charge of physical education shall be of the first quality. In the matter of intercollegiate athletics the president should be as well advised on all policies current among athletic organizations as any other person on the campus. He is at present regarded by the public at large as more responsible for athletic conditions than any other one person. The organization of physical education therefore, should vest in the president not only administrative obligations but the kind of administrative authority that will insure the best results in the organization and efficiency of this great and growing feature of the modern university.

#### THE DEAN OF WOMEN

This office should always be immediately responsible, as it is in the Ohio State University, to the Board of Trustees, through the President. The dif-



ficult administrative problems of housing women students, of guiding and determining their social activities, of relating the women's student organizations to a prescribed educational program requires a high order of administrative ability and a discriminating judgment upon the central issues of woman's education. Educated women of the country through the alumni organizations particularly have set up certain standards as requirements for a Dean of Women and also certain standards as to the character of young women in college. This field, of course, must always depend upon the woman for its standards and its efficiency. The University President, therefore, through the Dean of Women relates all the activities of young women to the colleges in which they are enrolled and finds the supervision of their studies and social activities a matter of constant daily attention. In a university where there are practically 3000 women students the Dean of Women ought to be well equipped from the standpoint of administrative ability, and able to enter into an intelligent discussion with groups of young women as to the educational experience from week to week. The Deans of Colleges find such an office a serviceable ally in academic questions as well as in questions of discipline. The Dean of Women is the constant adviser, therefore, to the Faculty and to the Deans as to the educational and social programs in operation among young women. The large problems of student government center about the office of the Dean of Women. The modern point of view entertained by the rising generation of young men and young women requires that such an office shall have something more than a passing sentimental view on questions of vocations for women and the type of education needed. The effort at Ohio State University since the appointment of the first Dean of Women has been to stimulate the self-development of young women and prepare them for a responsible judgment not only as to questions of education but as to the current issues of social standards and the educated woman's relation to such questions.

#### THE STUDENT AUDITOR

As intimated in the report of last year the work in the office of the Student Auditor, under the direction of Miss Edith M. Auch, has demonstrated its right to a place in the University organization. The work for the past year has been carried on with increased efficiency. A number of knotty tangles have been unraveled, the time of students has been conserved, a better knowledge of the relation of the student to these organizations has been developed, and the entire field of student activities from the standpoint of accounting has been improved. The report of the Auditor reveals the scope of the work undertaken and the practical accounting results secured.

#### AGRICULTURAL EXTENSION

The work in Agricultural Extension proceeds with regularity, strength, and stability. It has now reached the stage of permanence. The work is so well organized and so comprehensive in its plans that little change from year to year is made in the organization. The adjustment of the work from year to year in new conditions as they arise is a light task as compared with the task of the first five years when organization questions, service projects, and the selection of a competent staff were imminent and imperative. The changes in the service are too frequent to be gratifying but these changes are more readily provided for than were the original selections. The entire period has

been covered in administration under the deanship of Alfred Vivian and the directorship of Mr. Clark S. Wheeler and Mr. Harry C. Ramsower. This situation has given the basis for continuing the general policies adopted at the outset after careful and mature consideration. The sub-divisions of the work are mainly in the hands of permanent officials. The correspondence courses from the beginning have been under the direction and supervision of Mr. J. E. McClintock. His fitness for this service has been amply demonstrated and as a result that phase of extension work has been carried in a most gratifying manner. The report upon Agricultural Extension gives a complete account of these several activities and reference is, therefore, made to that report for further information. The budget has now reached its maximum unless supplemented purely by state funds. The Smith-Lever Act provides for no further increase of federal funds. The off-setting funds, provided by the State, have been supplemented by some small increases in the annual appropriations made by the legislature. The future expansion of the extension work, therefore, lies with the legislature and the organizations within the counties. The Farm Bureau and other farmers organizations have come forward in many instances with supplementary funds. This fact shows the satisfactory character of the service and furnishes the basis for experiments. The character and quality of the Ohio Farmer is one of the important assets to the Commonwealth. No educational movement reaching the mature and adult population has had a more profound effect in unifying the thought of the farmers and of bringing to them a body of common intelligence upon rural activities and rural life. This division of the University's activities deserves enthusiastic commendation.

#### THE LIBRARY

It is gratifying to report that the Legislature has continued without reduction the appropriation available for the purchase of books. This amount is not large enough to enable a comparison between Ohio State University and similar state universities to be favorable. Nevertheless, it represents a steady development in the resources of the library. The ideal condition of the library would be to have everything immediately available which any fertile mind could desire. No such condition exists anywhere but it is difficult to find a situation anywhere that is at all satisfying. The inquiring mind can always find a vacant space where he thinks there ought to be a book or a magazine. A serious effort has been made at Ohio State University during years past to build up a scholar's library. That has been measurably satisfactory if we are to judge by the recent experience. The purchase of duplicate books is a distinct effort to make the library a convenience for undergraduate students. The development of departmental libraries also makes the library a convenience for undergraduate students. These departmental libraries cannot be in any high degree a scholar's library. They are reference libraries for students and would be of little service to those engaged in the pursuit of advanced research work. A scholar's library differs distinctly and definitely from the library for the average person. Public libraries meet the latter need. University libraries tend to undertake to supply both the scholar's library and the reference library for undergraduate students. There is a distinct tendency to provide collateral reading at the expense of the University chiefly for the reason that students would not make these purchases for the lack of means and also for the reason that the ordinary student does not care to have a



large library until he has a permanent place for it. The provision, therefore, for a large body of students running into the thousands is not a small task. The danger is that we shall see it in terms of hundreds when we ought to view it in terms of thousands. What seems to be a waste of money in duplication is oftentimes the necessary condition of progress in the student. The tendency, however, to collateral reading has probably received more emphasis than desirable. The recent development of this experience is evidence of the fact that the teaching and testing methods have been measurably unsatisfactory and that Faculties are searching around for some other method of finding occupations for students. This method suffers from the unreasonable assignments usually liable to occur through lack of co-ordination in different departments making demands upon the same student's time. The result of such excess requirements is that students neglect these assignments or devote to them so much time as to interfere with some other classroom requirements not characterized by collateral and reference reading. The issue of the departmental library is like a wave of the sea, apparently uncontrollable and irresistible. All the new buildings are making provision for some such library chiefly on the theory of convenience. The expense of the administration has increased and a considerable amount of inconvenience results from the books not being available at the central library. Here, as in many other phases of education, the actual practices are compromises and because of that fact to a degree unsatisfactory and always subject to both approval and disapproval. After July 1, 1925, the Board of Trustees have provided that the direction of the library shall go back to the plan in operation for a number of years and that the administrative council and the librarian shall be responsible for the administration of the library. Here, as in many other places of the University, the lack of information on the part of many of the patrons of the library is the source of a large portion of complaints. There is no method by which the response to these complaints can be recorded. We hear the complaints but never hear the way these complaints are met. On the whole, therefore, the modern library, including the one at Ohio State University, presents a constant conflict of idealism and actual practice. Within the limits of the space at command and the force provided for operating the library an intelligent and reasonable judgment will recognize the high degree of efficiency both in administration and in meeting the needs of earnest minded Faculty members and students.

The amount of money expended in the purchase of books always is a very difficult question. There are so many books published that are chiefly a restatement of books already written that libraries have to carry a considerable amount of trash and useless material. The advanced cost of books renders the selection by a library a difficult task. The method in operation at the Ohio State University has been to start recommendations from the departments. This is done on the assumption that the several departments become conscious of their needs and are in a position to render the best available judgment on the desirability of books recommended. No library or executive officer can do much more than to open the channels of information and provide the method of reaching judgments between competitive conditions arising out of the fact that the money is never equal to the needs and desires of the departments.

The library constitutes the central source of inspiration and power in a University. Its equipment in books and its administration in service consti-

tute the two great problems in the library administration. From this point of view the active co-operation of the Faculty is sought through the administrative forces and the increased efficiency of the administration is always sought from the point of view of the patron of the library. The report of the librarian, printed as a part of this report, presents detailed information.

#### NEW DEPARTMENTS

During the year the Trustees authorized a new department of Chemical Engineering under the immediate supervision of Professor James R. Withrow. This is chiefly a division of the Department of Chemistry for the purpose of giving chemical engineering individual existence and for administrative reasons. The chief justification will, of course, lie in the greater efficiency of that division of Chemistry and its increasing opportunity for a specialized training. Its difficulties will lie in the tendency to duplicate or the unwillingness to co-operate in the wise and sound advice given to students who may have interests in both departments of chemistry. The chief danger lies in the fact that a student will not receive the proper counsel and advice that is provided if there should be any failure to co-ordinate the courses in the two departments in the interest of advanced work.

A Department of Industrial Engineering was authorized and Mr. John Younger elected as professor in Industrial Engineering. Some division of sentiment existed on this issue. There was a belief on the part of some that this subject belongs in the College of Commerce and Journalism rather than in the College of Engineering. This, of course, depends somewhat whether you emphasize the business phases or the engineering phases. The fact that cost accounting is taught in the College of Commerce and that shop organization is also taught furnished the basis for the belief that Industrial Engineering was more a question of business and business organization than a question of fundamental engineering. On the other hand it was held that the main issue in the education of this group of students was an engineering rather than a business issue. It was held that the engineering point of view and the engineering environment and the technical questions of engineering were so closely related that the technical questions of shop practice, shop organization, shop accounting belong naturally in the engineering division. After considerable discussion and the review of a number of reports from both sides of this case and testimony from a good many different sources the Trustees decided to authorize this department and put it in the College of Engineering. Experience will develop the wisdom of this action or its unwisdom. The co-operation of the two colleges upon such courses as may cover common ground may assist in the removal of objections presented from either point of view. It is well to note that in a good many of the sub-divisions of subjects in University organization a geographical location in particular departments cannot always be easily determined or unanimously agreed upon to relieve some issue as to the decisions.

The third department authorized was a Department of Music and Mr. Royal D. Hughes, for some time in charge of the music given in the Summer Quarter, was appointed as chairman to organize and develop the subject. This provision came after long and persistent suggestions and requests for a Department of Music. The President always resisted any such requests on the theory that there was no adequate space which could be assigned to music. That space is not yet provided but the situation seemed so imperative as to



render it advisable to begin in a modest way in the hope that within a reasonable length of time adequate place could be provided in which the Department of Music could be housed. During the Summer Quarter, when the demand for space is at its lowest point, it has been easy to provide for the work in music. The danger to the University of such new organization lies in the fact of a rapidly developing enrollment. Announcements for this department will be made in the late summer and the work begun in a modest way in the Fall Quarter.

#### THE BUREAU OF BUSINESS RESEARCH

The last Legislature made a specific appropriation in the interest of business research. In response to this provision the University has begun the organization of a Bureau of Business Research authorized by the Trustees some years ago. The history of this movement will be found no doubt in the first report of the bureau a little later on. It is perhaps sufficient here to make the announcement of the organization of the work and the appointment of the members of the staff who will begin the service as of July 1, 1925. A small amount of preliminary service had already been provided preparing the way for the formal organization to become effective July 1. The Legislature provided for two phases of research: first, the research work, and second, the extension service. It was believed that this extension work was essential to the carrying on of instruction on the campus and as an aid to research work. The general plan will be to provide that the men in the immediate departments interested will give a portion of their time to instruction on the campus and a portion of their time in the field in the extension division. This arrangement is made in the belief that the co-ordination of investigation, research, and teaching, will lead to the best results. The new bureau starts off with encouraging enthusiasm.

#### THE BUREAU OF EDUCATIONAL RESEARCH

This bureau, organized some years ago, has been in active operation and will during the coming year be given more adequate quarters in the new building for the College of Education. During the period of this service the bureau has developed a most excellent division library, has published a number of important studies and investigations in the field of public education, and has rendered a considerable amount of service in the way of surveys of particular schools, or the examination of schools, with certain definite objectives in mind. In addition to this duty and general considerations the publication of educational bulletins has been of vast importance. The publications from the Bureau of Educational Research have found place and response in the best schools of the country. The work and influence of these publications could not, of course, be confined to the limits of Ohio. Reference to the report of the director of the bureau will disclose a more complete statement of the activities of the bureau for the year. No agency in operation at the University has made more desirable or wholesome contacts with the existing educational systems than this bureau. Its service is highly commended by people engaged in the field of public education everywhere. It enjoys the confidence of the administration and should have more ample funds at its disposal.

## THE APPROPRIATION FOR THE NEXT BIENNIUM

The record of the Legislature for a long series of years has been one of increasing appreciation of the place and importance of the University in the State activities. A substantial proof of this statement lies in the fact that there has been a steady increase in the sum total of the appropriation. The distribution of this total in the main has been wise. The University has made a substantial development in the physical plant, but not faster than the increasing demand by departments, colleges, and student facilities has proved to be necessary. There is always something of conflict between the different interests represented in the development of a great plan for any purpose. It should be expected, therefore, that some conflict of necessity would arise between the great variety of interests represented on the University campus. It is, however, gratifying to report that for the next biennium the provision made for ordinary operation and maintenance has been very satisfactory so far as can be determined at present. The building program while substantial was not quite all that the University desired. There are some needs not yet provided, which in the judgment of many are quite as imperative as some that are now in operation. There is a difference of opinion, of course, always upon the order in which needs should be provided for. Patience in the building program is an essential virtue. The efficiency of the University, however, would have been much increased if a little more adequate provision had been made in the matter of buildings. The most difficult portion of a budget to secure is the item of salaries. A large Faculty even at very modest salaries requires a considerable sum of money. The natural increase in the number of teachers, the advance in the cost of living, the increased demand for competent professors, together with a limited supply, constitute factors in the program which cannot be ignored. It is easier to retain an experienced teacher than to treat him justly. It is more difficult to secure a new professor of adequate preparation than to provide a reasonable competence for professors already in service. The salary fund for the next biennium is the least satisfactory of any portion of the budget. It should have been increased by at least half a million dollars. That shortage has rendered the problem of an adequate provision for the Faculty in view of the student enrollment a most serious and embarrassing one. A pay roll involving hundreds of professors and teachers requires almost daily supervision at the hand of the administrative authorities assisted by competent accountants. No phase of the University administration gives a President more heartaches than the making of a budget and its inevitable amendments as the year advances. The ease with which salaries can be provided in many of the modern activities where profits are involved and in positions where discretion is lodged only emphasizes the difficulty of maintaining a rapidly growing University with an increasing teaching force on a fixed budget, especially where the budget is below the amount that a conservative judgment would suggest. The development of a more just appreciation of the salary budget as compared with other needs of the University will inevitably be one of the problems before the next Legislature. These comments are made not for the purpose of criticism but for the purpose of making as clear as possible the outstanding facts in the distribution of a budget by the Legislature. The fact that all appropriations must be made in advance of their application and needs must be anticipated for the entire biennium makes every judgment more or less unreliable and suggests the necessity of having at the command of the State under



proper restrictions a fund that can be used for the purposes of ordinary operation. The theory of restricting the activities of the State to fixed appropriations may be carried too far for real efficiency. It sometimes prevents the highest utilization of existing resources. The last dollar often makes previously assigned money tremendously effective.

#### ENROLLMENT AND STATISTICS

Reference to the statistics as seen in Appendix 6 will reveal a total gross registration of 12,824 students for the current year. This includes a Summer Quarter of 2724 students. There were in this gross total 1289 names counted twice. The net enrollment for the year was 11,535. The enrollment for the ordinary academic year not including the Summer Quarter shows 9923 students. The smallest enrollment from any county was seven from Vinton County, Ohio. Every one of the 88 counties in the State was represented in the roll. It is noticeable that Cuyahoga County had 979 students. Franklin County had naturally the largest enrollment constituting practically one-third of the student roll. For the year it was 3831. The other large enrollments are to be found in the counties having large cities. Montgomery County furnished 222 students. Summit County, with a University at Akron, furnished 135, while Stark County furnished 151. Lucas County furnished 152 and Mahoning County 151. Hamilton County furnished 113. Aside from these city counties nearby counties, such as Fairfield and Licking, furnished a roll beyond 100. Apart from these two there is a very general distribution of the attendance in the other counties of the State.

For a considerable number of years the custom has been followed of securing from incoming students the occupational census of their parents and guardians, and also a statement of their religious affiliations. These statistics have been sought for no other than to show the widespread influence of the University in reaching all classes and conditions of society from the two important phases of their religious affiliation and their industry. As always a certain number of persons failed to report either their religious affiliation or the industry of their families. No personal use of any sort is ever made of these statistics. However, it is important to observe in the matter of religious affiliation, that the student body represents a pretty fair cross section of the religious denominations of the State, the larger denominations, of course, presenting the larger number of students while all phases of religious life finds some representatives in the list.

In the matter of the industries, it is always interesting to observe that practically every classified industry in the State will be found among the parents of the students. In this year's report, however, it is noticeable that 733 students are the children of widows not offering any occupation. As usual the largest single group come as sons and daughters of farmers. Next in importance come merchants, business executives, attorneys, clergymen, contractors, manufacturers, physicians, salesmen, railway employees and public employees. Such statistical reports furnish available sources of information as to the public service rendered by an institution of higher learning. They express in most eloquent terms the uplift in democratic citizenship through the processes of the college and the university. No adverse comment could be possibly directed to any one of these particular classifications. We are quite as liable to discover an inferior or superior grade of student in one classification as in another. The chief obstruction to education does not lie



in these classifications but rather in the handicaps due to the free use of money and the superficial standards of life arising out of social ambitions and oftentimes the failure among the children of well-to-do parents to realize that there is no royal road to learning and that a university is built upon performance and efficiency in service.

The enrollment by States and countries furnishes an interesting basis of comparison. Of the 9923 students for the year 1924-1925, 9325 were from Ohio thus leaving 598 students distributed throughout 58 States and countries. Notwithstanding the non-resident fee assessed against students outside of Ohio, West Virginia contributed 75; Pennsylvania, 86; New York, 37; Michigan, 21; Illinois, 32; Indiana, 78; Kentucky, 14. Fourteen found their way from California and 17 from Massachusetts. Thirteen found their way from New Jersey and 11 from the Philippine Islands. Twenty-nine came from China. The nearby States furnished, of course, the largest contingency but attention is directed to the fact that from practically every portion of the United States students assembled at the Ohio State University. A few came from distant foreign countries.

This situation deserves some comment. There is abroad a sentiment that the State University should confine its attention to the children of the commonwealth. This, of course, is not true in existing conditions. More than 598 students from Ohio every year are educated in institutions outside of Ohio. That is to say we are educating fewer non-residents than the number we send outside for education. Furthermore, the State is receiving every year a considerable number of graduates from institutions outside of Ohio. Still further there is a high rate of mobility among the younger men and women educated in our colleges and universities. This interchange of college-bred men and women is by no means a misfortune. In a cosmopolitan citizenship such as the United States has been developing for some years it is of the highest importance that the educated men and women be widely scattered throughout the country and also that these educated men and women shall represent the type of education provided in institutions other than a State University. The contribution of Ohio Colleges through the college-bred men and women of the State is a very considerable element in the stability of the Ohio mind. The contribution from outside sources represents a point of view preventing provincialism and particularly the narrower views of education and modern life apt to prevail among people who are entirely satisfied with themselves and somewhat dissatisfied with every one else. Education is by no means a local matter. The fact that Ohio State University is supported in part by federal funds should not be overlooked in an attempt to estimate what the opportunity and duty of the University may be. It is a mistaken policy to measure the future of the University by any local or temporary conditions, or by the less important factor of money as reflected in the cost of education. It is interestingly significant that for a series of years on the campus of the Ohio State University all phases of religion, politics, business and industries, have been represented in the experience of the students. No uprising involving questions of religions, or racial prejudices, has ever been known among the students of the Ohio State University. The freedom of association, together with the policy of fair treatment and the recognition of equal rights among all students, seems to have justified the faith of the founders of modern education in the free association of students. The opinion is here expressed that the experience on the campus of



the Ohio State University for the past 26 years has amply justified higher education as a means of developing intelligence, tolerance, generosity of attitude and respect for honorable achievement. These elements, among others, constitute a training in citizenship of importance quite beyond any formal training that could be provided in the mere technical phases or pretentious programs announced for citizenship in a democracy.

#### THE MODERN STUDENT

So much has been said and written about the modern college student in a critical tone and in a spirit of pessimism that it would seem worth while to review the experience of a quarter of a century of association with Ohio boys and girls. In the first place they are, in a great majority, the native product of Ohio families and Ohio high schools. They are a selected group. They represent the best youth of the State both from the standpoint of opportunity, training and privilege, and from their antecedent experiences and traditions. They come to the University with high hopes and genuine enthusiasm. This statement will not be agreed to by some people, but I reaffirm it in the presence of doubt. The heart searchings of the majority of these students in the hours of reflection are not always understood or even suspected. The superficial and artificial phases of youth are taken too seriously. Chameleon-like they reflect promptly their environment. The fashion plate and the mirror have lost none of their charms or enticements. The creators of fashion have enslaved us all. Our children, as we once were, are imitators. The majority of them follow the hero of the college, the standards of the fashionable, just as their fathers did. This is not the basis for condemnation but a golden opportunity for educational leadership. Why should this generation complain of their own children, better cared for physically than their parents ever were, better informed and maturer in judgment than their parents at the same age and quite as talented. The race is not degenerating. It never has been easy nor has it ever been a simple matter to lead a generation in the paths of learning and of social development. The problem with the present generation is more exacting just because of the progress in ideals and the more exacting standards. We now see clearly where our fathers did not comprehend. This is a clarion call for intelligent and high minded leadership. Too many parents and professors seem to assume that all responsibility rests with the youth. Public men, including Faculties, spend their energies in social diagnosis and spiritual whining. For centuries the prayer has been—Remember not the sins of my youth, nor my transgressions.

The common assumption so current in the past decade that students are not up to standard, intellectually, morally, or socially, is more chargeable to a poor memory or a lack of information as to what conditions really were than to an accurate comparison between the youth of two generations. This is not to intimate that the modern student is anything like what the best of us might desire, but it is to intimate very definitely that a mere conceit about ourselves is not a sound basis of judgment.

The educational tests all show that poor spelling prevailed in earlier generations; that bad tempers were not infrequent; that drunkenness and licentiousness were not unknown; that students were often given long vacations to the relief of Faculties and with their cordial approval. The inaccuracies in scholarship of the preceding generations are frequent sources of comment by modern critical scholars. The moral standards of conduct pre-

vailing two generations ago would not be tolerated today either in college or out of it. There always have been great souls in the world. No generation has been without their beneficent leadership but the brilliant light of modern days has revealed conditions hitherto unknown. The modern student lives under this light. His weaknesses and his vices are more readily seen and are made a matter of comment.

On the other hand modern education has subjected the student to a more careful and more scientific analysis than has ever occurred in any previous generation. His daily performance and academic records are more carefully scrutinized than ever before. The unyielding spirit of the modern Faculties makes it impossible for students to graduate out of considerations of kindness or to win degrees through favoritism. An inferior or deteriorating body of students will fail to meet these more exacting requirements. The pragmatic test of experience as to what the modern student actually achieves in life is a better test of his quality.

The opinion arising out of experience is here expressed that the modern student will justify himself; that he is the basis for an enthusiastic faith in the future. No other prospect is so bright. Industry, the social order, the great philanthropies, the world-wide movements in religion, and to an encouraging degree our political activities, all show the beneficent influences of the college-bred man and woman. The experiences and observations of the last 10 years bring emphasis upon this assertion. The average student may be, and doubtless often is, a conundrum to the professor. It would be quite as interesting if the student would open his mind. We cannot unload our own responsibilities by denouncing the inefficiency of others. The student may be a problem, but he is also an opportunity. If this generation meets its opportunity the next will be able to take care of itself. It should always be kept in mind that a generation of youth is vastly better than its follies or vices may suggest.

#### THE Y. M. C. A. AND Y. W. C. A.

These two organizations for many years have found place in a social service among students deserving of a little keener appreciation than they have had. It is so easy for people to pass by in a large organization important activities, or just to take them for granted. The gratifying thing is that these organizations keep right on doing the work to which they are appointed, and do it with great efficiency. The character of the work among the young men differs somewhat from that among the young women, but essentially they work in the same great areas. The matter of student employment has been largely given over to the Y. M. C. A. and has been operated with satisfying results. The employment of young women is not so wide spread for obvious reasons. Nevertheless the Y. W. C. A. and the Women's Council, Dean of Women, and other forces have been able to render a considerable service in this field for young women. The chief reason, however, for the existence of such organizations lies in the fact that they are definitely committed to the Christian program and that they make a distinct effort to hold before the student body the definite Christian ideals that obtain in society. The fine type of Christian character which renders the service in these organizations is worthy of appreciation and commendation. The co-operation of these organizations with the local churches and the development of Bible study is most commendable. The wide spread sentiment in these days that a better knowledge of the Bible is of the highest importance leads one interested in young



men and young women to encourage every effort looking in such direction. The prejudices and objections that become current in a generation concerning questions of religion, of science, of politics, of business, usually arise out of the lack of acquaintance and the precise information upon the subject in which men and women substitute their opinions for the facts in the case. No important subject of human inquiry can fail to profit from the careful examination of the sources upon which the subject must be built. Youth is the period when the appeal is strong upon the great central issues of life, of duty, of obligation, of honor, and of service. It is obvious that the present generation has a little if not as much interest in certain phases of these great issues as their parents had. It is a mistake, however, to assume that they have no interest or that they are positively hostile to the investigation of these important considerations. The future must, therefore, make ample provision for some reply to these uprising inquiries from youthful minds or our education will fail of its opportunity and society will suffer from uninformed and ill-informed intelligence. The movement throughout the country for increasing Bible knowledge, Bible study, and in general for developing the great field of religious education is more profound than would appear from a superficial reading of the current press. Every intelligent source of information intimates the vital importance to every generation of having some adequate intelligence upon the important issues of religion, morals, of the ethics of business, and the social standards current in a generation. In addition to these the further development of good-will, of brotherly kindness, and charity between the representatives of different nationalities appearing on the campus is a service rendered better by these organizations than by any others available. The co-operation of these two organizations with the Student Pastor Movement provided through the churches has developed through the years in a very satisfactory way. The University, as such, may never engage in the definite and positive forms of instruction in religion, but this should not be interpreted to signify that society or the State does not have an interest in religion. No partisan or sectarian point of view can be maintained and there will be no normal relation between religion and the State since this country is definitely and perpetually committed to the theory of the separation of church and state. This, however, was never intended to interfere with the freedom of religion or to insert in any way that it was not of vital importance to the welfare of the country. Upon this question opinions may differ, but we are still under the influence of the historic expression in the Ordinance of 1787, which declares, "That religion, morality, and knowledge being necessary to good government, and the happiness of mankind, schools and the means of education shall forever be encouraged." (Constitution 1802. See modified form, Article I, Section 7. Constitution of 1920.)

#### OHIO STATE ALUMNI ASSOCIATION

The Alumni Association, through the secretary and his assistants in the office, has maintained a high degree of efficiency and as usual has presented now and again through the year special features of interest to the alumni. It is worth while to record the fact that a high degree of pleasure and satisfaction has resulted from the manner in which the Saturday night alumni supper has been provided at the Stadium. The simpler days of Ohio Field when, on Saturday evening the alumni sat around tables and took the consequences of wind and weather, carry a very delightful charm in the memory;



but those days have gone. A new day dawned when the Stadium was completed and experience has demonstrated that the sunset gathering after the alumni supper rounds out a very happy and complete day. In June, 1925, approximately 1500 alumni enjoyed the pleasurable program of the Saturday evening supper. This experience is probably unique in the history of college functions. It furnishes opportunity for an informal and delightful association and at the same time opportunity for the inventive genius of alumni in providing a thoroughly happy and delightful program of songs, stunts, and recreations. The fact that they are in a mood to attend the sunset supper and listen to the traditional and serious remarks of a president shows that the exuberance of youth is not altogether a dissipation. The occasion in 1925 will probably be remembered as one of the most delightful experiences the Alumni Association has yet enjoyed.

The serious phase of alumni activity concerns itself with the maintenance of a strong and numerous body in active membership as the basis of organized alumni activity. The average alumnus probably fails to appreciate the necessity of co-operative efforts on the part of all alumni in order to accomplish the results desired by all acquainted with the University life. There is no other organization that can quite take the place of an Alumni Association. The importance of their concerted plans and services cannot easily be overstated. The task lies in securing in the consciousness of more than fifteen thousand living alumni that they are a living part of a growing University to which they may make some contribution of thought or idealism. The tendency is to think in terms of money and materials. These have their place in a high degree of importance. The chief concern, however, is to carry in the minds of the alumni a true conception of what a university really is and to arouse in these alumni from year to year an appropriate enthusiasm for such ideals. A thousand alumni united on important University ideals would be underestimated at a million dollars a year. Universities grow through the creative power of imagination and the persistent influence of University sentiment and tradition. These find expression chiefly in the alumni. The Association finds its great task in carrying out such projects as will bring to the young alumnus and alumni a permanent bond of interest and affection for Alma Mater. The problem in the future will not be one of bigness but rather one of idealism and a program of practical service which shall emphasize to the commonwealth the quality of the service the University continues to render to society. Modesty should not prevent the citizenship of Ohio from knowing the important place already occupied in the support and maintenance of the State by educated men and women. In that service Ohio State occupies a distinct place worthy of recognition and appreciation. The President desires to express his great happiness in the Alumni Association for 25 years past and to record his appreciation of the support they have always been ready to give. The future of the University is largely in the hands of the alumni. The hope is expressed that they will be able to supplement the provision made by the State with such gifts and endowments as their circumstances will permit.

It is gratifying here to direct attention to the generosity of Edward Orton, Jr., in honor of his father, the first president of the University. Professor Orton has reconstructed a portion of Orton Hall into one of the most attractive and beautiful libraries to be found anywhere. He has shown skill and good taste in providing facilities here for a Library in Geology that will command



the greater portion of the space in Orton Hall, and through the years become one of the most desirable centers of study in geology to be found in the country. His own personal contributions in money from year to year have supplemented the appropriations by the State. The steady growth in this library and the collection of important material make Orton Hall and its contents an appropriate memorial to both father and son, a gift and memorial in which the alumni and all interested in the University should take great pride and satisfaction. The appreciation of the Trustees and the alumni is due to Edward Orton, Jr., in thus providing a permanent and worthy memorial to his father, Edward Orton, Sr., President of the University from 1873 until 1881, and Professor of Geology from 1881 until his death, 1899.

#### CONCLUDING REMARKS

The fact that this report for the twenty-sixth year of continuous service is my final report may suggest, if not justify, the reasons for the following statement:

I arrived in Oxford, Ohio, July 31, 1891, as the President-elect of Miami University where the preceding year fewer than fifty students had been in attendance and where the total annual revenue was something less than ten thousand dollars. The trustees and alumni had abandoned any hope of further appropriations from the State. In January, 1892, I appeared before the Finance Committee with a modest request for about fifteen thousand dollars. Less than a 10 per cent reduction was made from the request. The appropriation for the biennium beginning July 1, 1925, from the State for Miami University was \$1,240,650. Since that time I have appeared before every session of the Legislature with a request for appropriations for higher education.

I came to Ohio State University July 1, 1899, and for some weeks spent one half of the week at Miami carrying on the correspondence with prospective students and attending to such other business as needed attention. These 34 years represent the best years of my life given to the cause of higher education in Ohio. I am now relinquishing the task effective on November 5, 1925, when I shall have reached the age of three score and ten. My health is all that could be desired. My retirement is due to a long cherished belief that public officials should retire while they can do it without the bitterness that often attaches to a situation when men seem not conscious of growing infirmities of body or mind or of both. A second reason lies in the fact that I believe that the eighth decade is not a period when the exacting requirements of heavy administrative duties and responsibilities should be carried. A great university of the modern type requires the constant thought and attention of a president in the full tide of his energies, alert and resourceful in all the situations that arise. Men of advanced years should not, in my opinion, endanger their own health and the prosperity of the institution by attempting burdens they are no longer able to carry.

In laying down the duties of the office I desire to record my profound gratitude and appreciation for the splendid and cordial reception all these years given to Mrs. Thompson and myself. No finer treatment, as it appears to me, has ever been accorded to any college president and his family. For this I am more grateful and thankful than my words can express.

It is proper to say that whatever progress has marked these 26 years is principally and chiefly due to the fine spirit of co-operation that has steadily

developed through these years. The Legislature has been increasingly generous as a glance through the appropriation bills will disclose. The Trustees without exception have sought the prosperity of the University and have endeavored to make it an efficient agent in a citizenship inspired by the highest ideals of the people of the Commonwealth. The Faculty has grown in numbers a little less rapidly than the student body but the effort to secure a body of men and women with enthusiasm for learning, for students and for public service has not been without marked success. The devotion of the Faculty to the highest interests of the University and of the State is probably not excelled, if equaled, anywhere in the country. The definite determination to keep the University free from the sinister influences of partisanship, small mindedness and petty strifes has developed an esprit de corps in the teaching staff readily recognizable.

The student body, as elsewhere remarked, has been singularly free from excesses often charged against the modern college student and has always shown a most commendable readiness and willingness to conform to all reasonable regulations and to co-operate freely in all University activities. This quality was admirably demonstrated at the celebration of the fiftieth anniversary and in the campaign for the Stadium.

Mention should be made of the generous and hearty co-operation of the administrative and executive officials charged with the immediate care of the physical plant. No finer organization from the humblest to the highest could be desired. My gratitude to all these people through the years is cordially acknowledged.

In the inner circle of administration the fine fellowship and comradeship with the Deans has been a constant source of strength and help. The freedom of expression among these men, their high devotion to the trusts committed to their care and the absence of annoying jealousies and rivalries have made achievement possible. To them as much as to any group of men is due the credit for the development of the University in the last two decades.

Conscious of the limitations in all men and in my own service I am thankful to a kind Providence and to all my colleagues and helpers and to the citizens of the Commonwealth for the untrammelled opportunity for service given to me. For my successor, whoever he may be, I can offer no more sincere prayer than that he may be accorded an equal love and loyalty in his inviting task. The opportunity is more inviting, the task is more exhilarating and the rewards will be in keeping with the character of the University. My hearty congratulations to the man who comes to meet and greet this great dawning day.

The usual statistical reports as required by law, the reports from the Deans, Departments, and other divisions of the University activities are herewith submitted as part of this report. The Summary of the Financial Report of the Secretary of the Board of Trustees is included as usual as part of this report. Reference to the appendixes will provide information supplementing that found in the several reports. Respectfully submitted,

W. O. THOMPSON, *President.*

July 31, 1925.



## ANNUAL REPORT OF THE COLLEGE OF AGRICULTURE

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Agriculture for the year ending June 30, 1925.

The year upon the whole has been a very successful one for the College, although there have been few developments that call for special comment. A small group of the faculty have continued their study of methods to improve classroom instruction, and I feel that a distinct advance is being made along this line. Since entering upon the quarter plan we note a marked improvement in the student grades. Part of this is undoubtedly due to the greater concentration incident to the quarter plan, and part of it due to the fact that a good standing is demanded of all who wish to carry extra work.

There have been few changes in the faculty during the year, which makes for better continuity of instruction. Professor Firman E. Bear was absent on leave during the year, studying various phases of European agriculture. Professor Thomas G. Phillips accepted a position in the University of New Hampshire, and was absent during the Winter Quarter. Director H. C. Ramsower was on leave during the year doing work at Harvard University.

The College suffered an irreparable loss in the death of Professor Frederick W. Ives, who lost his life in a railroad accident when returning from a meeting of one of his professional societies in Boulder, Colorado. Professor Ives had made an important place for himself in the University, and in the hearts of the farm folk of Ohio. He was in the prime of life, with the promise of a life of great usefulness before him, and his loss leaves a great gap in our faculty circle.

Professor Glen W. McCuen was made head of the Department of Agricultural Engineering early in the year. During the year this department moved in the new building which has been named "Ives Hall," in honor of the late Frederick W. Ives. This building, when fully equipped, will enable the department to carry on a more satisfactory program of work. The money for the equipment was provided by the last legislature.

### STUDENT ENROLLMENT

The total number of students enrolled in the College for the year was as follows:

Standard Course in Agriculture.....	589
Standard Course in Home Economics.....	349
Winter Courses in Agriculture.....	81

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Total for the year.....1019

It will be seen that the enrollment shows a slight increase over last year. A little better attitude on the farm, a little more of hopefulness, is now in evidence, and I confidentially expect that this change of attitude will be reflected in a gradual increase in the enrollment in agriculture.

### THE ALL-AGRICULTURAL COUNCIL

This group, consisting of the elected representatives of the student societies of the College, and the Dean and Secretary, has continued to function in a

useful manner. As a means of contact between the students and the Dean, it has proven to be of great value, and has had the effect of raising the quality of the various extra-curricular activities of the College.

#### NEW BUILDINGS

As mentioned above, the new building for Agricultural Engineering was nearly enough completed so that it could be occupied during the Spring Quarter. It will probably be fully equipped in time for the coming Fall Quarter. The new main building for Animal Husbandry (across the river) is rapidly nearing completion and will be ready for occupation by October.

Several new buildings are badly needed by the College, among them some suitable place to house the work horses of the farm. A complete statement of the present building needs of the College was presented in the request budget prepared last summer.

#### THE ROTARY FUND

This year has again demonstrated the value of the rotary fund as a stimulus to better work on the part of the department. While the amounts realized from sales are not large, they are sufficient to give a little flexibility to the budget, and the fact that the money thus realized can again be used by the department encourages greater care and interest in disposing of the produce of the farm and gardens.

#### THE UNIVERSITY FARM

We were fortunate in obtaining the services of Thomas D. Phillips as Farm Superintendent at the beginning of this fiscal year. While we were handicapped by funds insufficient to do all that the farm needed, the improvement in the farm is such as to have been commented upon by several people. A detailed report of the farm is found in the special report of the Division on Farm Operations. The purchase of the tract of land from Miss Mary Hess secures permanently for the University a tract that we have been farming under lease for several years. It is a great addition to our estate.

The Division of Farm Operations renders many services that are not connected with the farm. We are glad to render these services, but beg that they be considered when estimating the usefulness of this division.

#### RESEARCH

The reports of many of the departments indicate a healthy interest in research. Most of the research conducted in the past has been done under considerable handicap. It is to be hoped that the new agreement between the College and the Experiment Station may result in valuable cooperative research projects. One of the crying needs of the College since its organization has been better facilities for research.

#### EXTENSION SERVICE

A full report of the activities of the Extension Service will be presented in a separate report in accordance with the Federal and State laws. The past year has been a busy one, and the quality of the work is constantly improving.

Farmers' Week this year had an attendance of 5428, and the interest was up to the standard of former weeks.

The exhibit at the State Fair was a credit to the University, and the usual plan of having each department feature one phase of its work was again



followed. During the third week in November the College entertained the eight hundred boys and girls who were county winners in the Boys' and Girls' Club projects. The club work continues to be one of the most useful phases of extension work.

For three weeks in June and July the College conducted a School for Rural Pastors, with an attendance of about forty. We feel that this is well worth while undertaking.

#### ADMINISTRATION

The Dean's office is continuing its study of matters connected with curriculum building, courses of study, student standing, methods of helping students, and so on. We are cooperating with the Department of Psychology in an effort to determine the exact value of the intelligence tests in connection with administration as affecting the student. An interesting system of records promises to throw much light upon the real effort of the new point system upon the student.

#### PERSONAL ACTIVITIES OF THE DEAN

This has been an unusually busy year for the Dean. The absence of the Director of Extension has thrown many of his duties upon the Dean, and, of course, has meant that he must also drop, temporarily, some of his usual resident duties. Among other things he has traveled over thirteen thousand miles (8000 by auto and 5000 by train) in the State of Ohio, and has delivered over ninety addresses. He gave two addresses at Ionia, Michigan, and one at the University of Illinois. He was also Chairman of a Committee which had several meetings and prepared a report for the Association of Land-grant Colleges. The year has, however, been a very enjoyable one, and while it has been an extremely busy one, the opportunity to come a little more closely into direct contact with the extension work has been appreciated.

ALFRED VIVIAN, *Dean.*

## ANNUAL REPORT OF THE COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Arts, Philosophy, and Science for the year ending June 30, 1925.

### THE FACULTY

During the year there have been the usual number of changes among assistants and instructors, especially in the large departments. There has been no loss in the staff of anyone of professional rank until near the close of the year, when Assistant Professor E. F. Hacker of the Department of Romance Languages resigned to take effect April 28, 1925.

At the beginning of the Autumn Quarter, Assistant Professor Claude E. Anibal entered upon his duties in the department of Romance Languages, coming from the University of Indiana. The wisdom of this choice was at once apparent, and Professor Anibal has won a very high place in the esteem of his colleagues as a scholar, an educator, and an accomplished gentleman.

It has been possible to provide a limited number of additional instructors in the larger departments; but for the most part these additions have been for temporary character and have not served to lessen the pressure of members in the several departments.

Assistant Professor Carl Wittke was granted leave of absence for the year to serve upon the staff of the Department of History in the University of Iowa. His place was filled for the year by Assistant Professor George M. Stephenson, on leave of absence from the University of Minnesota, who made many friends here by his scholarship and personality.

Assistant Professor Albert R. Chandler of the Department of Philosophy was granted leave of absence for the year to fill the Professorship of Philosophy at the New York University. His place was taken by Mr. Oliver L. Reiser, who had already served as instructor in the department.

Upon his return from a year's study at Harvard University, Assistant Professor R. E. Rockwood was promoted to the rank of Professor and resumed his duties as Chairman of the Department of Romance Languages.

During the year Professor George W. Knight presented his resignation as head of the Department of American History, asking to be relieved of executive responsibility and to be permitted to devote his entire time to teaching. This resignation was to take effect July 1, which date marked the fortieth anniversary of active connection with this department of the University, and marks the retirement of one of the oldest of our University professors from the active management of a department.

In the course of the year many members of the staff have taken advantage of accumulated vacation credit for travel and study abroad, as well as in this country, and for teaching in sister universities. The University profits greatly by the wealth of cultivation and experience afforded its professors in this way.

### THE ADMINISTRATION

The work of the Dean's office has been greatly facilitated by the satisfactory and adequate quarters afforded by the transfer of the President's office



to the new Administration Building, and the adaptation of the offices thus vacated to the use of the College of Arts, Philosophy, and Science. An adequate system of duplicate records has been perfected providing for notes on all interviews with students and it is felt that the office is at all times informed on the work of each of its students. The staff of this office is to be warmly commended for its devotion to the interests of the college, often working hours overtime to keep the business of the office in order.

## THE ENROLLMENT

The enrollment of the college for each of the four quarters together with the voluntary withdrawal after enrollment was as follows:

Quarter	Summer	Autumn	Winter	Spring
Arts .....	439	2149	1924	1674
Arts-Education .....	44	136	135	129
Total .....	483	2285	2059	1803
Withdrawal—Men .....	11	46	74	42
Withdrawal—Women .....	0	21	29	21
Withdrawal Total.....	11	67	103	63

A comparison with the corresponding table of last year will show a slight falling off in the attendance in most of the quarters. This is probably due to the fact that the adjustment between the College of Arts and the College of Commerce and Journalism was not completely reached last year; to the fact that higher standards have been required for transfer into Medicine and Law; and to the going into effect of the rule that prevents the continuance in college of a student who has been in residence during nine quarters and who is materially behind in his points; and in general to the consistent effort to tighten up on the lax student and make it evident to him that he is wasting time to remain in the University while neglecting his work. The number dropping out after admission would have been noticeably less than last year if it had not been for the prevalence of a type of gripe that made the victim of the attack quite unable to apply himself to study.

## HIGH SCHOLARSHIP

## ANNUAL HONOR LIST

At the close of the year 94 students in the college were found to be entitled to a place upon the annual honor list. To attain honor standing a student must have a grade of "A" in at least half of his work and not less than "C" in any of it.

## COMMENCEMENT HONORS

The number of students who received the degree of Bachelor of Arts *with distinction* or *with high distinction* during the year was as follows:

Standing	Summer	Autumn	Winter	Spring	Total
Distinction .....	1	2	1	20	24
High Distinction.....	0	0	2	22	24
Total .....	1	2	3	42	48

The total is slightly beyond that of last year (45) and is about in proportion to the increase in the number of degrees.

## THE OHIO STATE UNIVERSITY

## DEGREES

The number graduating from the College of Arts, Philosophy, and Science during the year was 287, distributed as follows:

Degree	Summer	Autumn	Winter	Spring	Total
B.A. ....	41	23	26	188	277
B.Sc. ....	1	0	0	9	10
Total .....	42	23	26	197	287

There was a falling off of 10 candidates for the degree of B.Sc. and again of 23 candidates for the degree of B.A. This loss and gain is partially explained by the fact that more men are taking three years of preparation for medicine instead of two, and are candidates for the B.A. degree rather than the degree of B.Sc.

## SCHOLARSHIP DEFICIENCY

The number placed upon probation or dismissed for continued poor scholarship is shown in the following table:

Quarter	Summer	Autumn	Winter	Spring	Total
Probation—Men .....	14	121	74	92	301
Probation—Women .....	7	25	22	24	78
Total .....	21	146	96	116	379
Dismissed—Men .....	5	26	43	46	120
Dismissed—Women .....	0	5	10	13	28
Total .....	5	31	53	59	148
Dismissed 9 Quar. Rule—					
Men .....	0	0	3	23	26
Dismissed 9 Quar. Rule—					
Women .....	0	0	1	5	6
Total .....	0	0	4	28	32

These numbers are materially in excess of those of last year. The most obvious reason for this increase is the fact that the rules for both probation and ordinary dismissal have been stiffened to some degree, and the rule for dismissing a student who has been in residence for 9 quarters and who is below the ratio of 1.7 points has been put into effect. A second underlying reason is that we are getting an undue number of students whose record in the high school is so low as to make failure in college almost a certainty. Because of crowded conditions, other colleges in the state decline to admit students graduating from the high school with low grades or who have taken commercial courses. Under the state law we must admit all such students and it is to be expected that the percentage of failures will increase. To these reasons must be added a third. As an institution grows in size personal attention to the individual student unfortunately becomes more difficult. Many students do not survive this sudden personal responsibility and for lack of a supporting hand fail to take hold of their work and become engrossed in various distracting activities.

## ACTIVITIES OF THE STAFF

Apart from the work of instruction the University expects a good deal from a professor in the way of publications, lectures, and public activities.



Since the College of Arts, Philosophy, and Science differs from all other colleges in having no technical staff, and in having the majority of the departments of instruction budgeted in other colleges, it is confusing and inadequate to attempt a list of publications, for many of these would be duplicated in other reports. It is, however, possible to say that there has been gratifying activity on the part of the staff and a considerable number of very scholarly publications have appeared during the year. The titles to these publications will be found in the List of Publications of the Staff as frequently revised by the University. One activity made possible by the four-quarter plan is the frequent calling of members of our staff to other Universities during their quarter of leave of absence. This has the disadvantage of keeping the instructor engaged in teaching, but has the compensating advantage of greatly extending his knowledge of the methods of work in other universities.

#### COMBINATION COURSES

I desire to emphasize the comments of last year in regard to combination courses. Some of these have not proved to be popular, though occasionally a very ambitious student takes advantage of them. Other more natural ones, namely, Arts-Education, Arts-Law, Arts-Medicine, and more recently Arts-Dentistry, are growing in popularity and are to be encouraged in every way as insuring more widely educated graduates from our professional colleges.

#### THE CURRICULUM

The changes in the curriculum described in the last annual report have been put into effect and the result has been entirely satisfactory to both student and faculty so far as can be judged. In another year it will be necessary to organize the new courses contemplated in this curriculum, namely, courses in (1) the fundamental concepts and methods of modern science; (2) the development of civilization in social relations, and (3) the great literary masterpieces of the world. It is hoped that there may be no delay in inaugurating these courses.

#### THE LIBRARY

It is a matter of profound satisfaction that the proposal at one time made to cut the present appropriation for the Library was not carried into effect, and that the income enjoyed for the last two years was continued. As stated in the report of last year, this present income is far from adequate. The needs of a Library in an institution that attempts such a wide variety of work as does the Ohio State University; and has within a few years added so extensively to its courses of an advanced nature; and had for years possessed so inadequate an income, are far beyond what would be anticipated by anyone who has not carefully looked into the matter. It is clear to all departments attempting to do advanced scholarly work that the legislature must somehow be induced to greatly increase the present income of \$50,000 per annum, or the Board of Trustees must give its sanction to some carefully worked out plan whereby private citizens may be induced to provide endowments for the general library or for the libraries of designated departments. As reported last year, several splendid contributions of this kind have already been received, and it is my conviction that reasonable, well directed effort could secure many more endowments of the same kind.

## THE EDWARD ORTON MEMORIAL LIBRARY

The Department of Geology is very fortunate in having the Edward Orton Memorial Library of Geology which was established in 1916 by General Edward Orton in memory of his father, Dr. Edward Orton. The Board of Trustees set aside two rooms in Orton Hall, and General Orton prepared these admirably for library purposes. By 1922, however, it was apparent that stack room would soon become inadequate and General Orton, with the approval of the Board of Trustees, fitted up the large room in Orton Hall which, for many years, contained the University Library. This room is really beautiful, and no other library of geology, here or abroad, has such handsome and well adapted quarters. Since 1920 General Orton has been providing annually \$500 for the purchase of books. The library is also the depository of the Geological Survey. The collection numbers about 11,000 volumes and ranks among the best in the country.

## STUDENT HEALTH

The problem of student health is of very great importance in so large a body of young people as now constitutes the University. While we provide adequately for advice for all sorts of comparatively unimportant ailments, we make no provisions for the care of students who are seriously ill, and afford them no medical assistance or hospital facilities in any systematic way. Many institutions are far ahead of us in this respect, and it is to be hoped that some form of student health insurance will soon be formulated whereby for a small individual fee all students will be guaranteed adequate medical attention in case of serious accident or illness.

## THE GENERAL STATE OF THE COLLEGE

I deem it my duty in this report to record my very real solicitude, as well as that of my faculty, regarding the organization and prospects of the College of Arts, Philosophy, and Science as one of the constituent colleges of the University. I feel that the well-being of this college must be made a definite object of considered attention by the Board of Trustees if it is to continue as a force for general culture within the University.

Responding to the invitation of the Board of Trustees to submit any comments that I desired to make upon the Frazier Report of several years ago, I submitted a statement of my feeling as to the difficult position of the College of Arts, Philosophy, and Science, and I here insert my communication as expressing my views in the matter. The communication was as follows:

COLUMBUS, OHIO, April 1, 1925.

*To the Board of Trustees, The Ohio State University:*

GENTLEMEN—In response to your courteous invitation, extended through the President of the University, I beg leave to ask your consideration of a few observations suggested by the Frazier Report. I have in mind particularly the item "Organization of the College," pages 24 and 25, and its bearing upon the College of Arts, Philosophy, and Science.

It is my conviction, shared by my Faculty, and, I believe, by the President of the University, the Administrative Council, and the great majority of the staff of the University, that a strong College of Arts and Sciences is essential to the scholarly life of the University. It is, however, a fact widely recognized in the administration of universities similar to our own, that a College of Arts and Sciences, as well as the Graduate School to which it so directly leads, is peculiarly difficult to maintain as an effective unit when surrounded by a group of professional schools with their more immediate interests and tangible objectives, no one of which is on a graduate basis. That it may maintain high yet attractive standards of scholarship and fill with dignity its central position in the University organization, it must have facilities for its work equal, if not superior, to those of the professional colleges, and a very definite supportive attitude on the part of the Board of Trustees.



Many quotations might be cited in support of the wide-spread recognition of the necessity for this fostering care, but the justice of it is so evident that I shall content myself by referring only to (1) the recent able report upon the organization of the University of Pennsylvania; (2) an article in the *New Republic* of the date March 25 commenting upon the reorganization of the Arts College work at the Johns Hopkins University; (3) the recent laying of the corner stone of a very large Arts College building at Columbia University in response to the demand of students and friends that emphasis be placed on this central division of the work of that University lest it be submerged in professional schools.

Turning to our situation here, I desire to call attention to two lines of policy each of which is, in my opinion, fatal to the ultimate development of the College of Arts and Sciences and which if continued, will largely nullify its value to the University life.

1. The material equipment for effective work of the College has been placed consistently subordinate to that of every other College of the University.

In the twenty-seven years during which I have been connected with the University I can recall no appropriation applied to the material development of the College as such. Various departments have profited by housing conditions secured through connections with other colleges. As other colleges have been newly housed, University Hall has been more and more devoted to the work of the College, but its facilities for department libraries, reading rooms, museums, are almost wholly lacking and it has at present no attractiveness comparable with the environment of the newer buildings. Although urgent appeals have been voiced in nearly every biennial budget for many years for the two largest departments of the College, either of them as large as most of the colleges of the University, the conditions under which they work are well nigh impossible. Yet within this time every college of the University has been rehoused and reasonably well provided for its comfort and efficiency.

The student body is apt to place about the same estimate upon a College of the University as do the governing authorities, and it is not surprising that the College—always the largest of the University—begins to show decided symptoms of becoming a mere preparatory school for other colleges.

2. The assignment of the various departments of the University to the several colleges is quite anomalous in American University organization and has placed the majority of the vital departments of the college that provides the most students for graduate work entirely beyond the control of the College of Arts and Sciences. For example, Geology is the only department of science assigned to the College.

Most of these departments affect the college in which they are budgeted in elementary or fundamental courses only, whereas the advanced courses are of paramount importance to the College of Arts alone, and the students enrolled in these courses are Arts College students. No professional college of the University would be willing to work under parallel conditions with more than half of its important technical courses administered by deans whose primary interest was elsewhere; and in no other university of importance can a parallel situation be found. The present assignment was, as I understand it, made without any adequate discussion, and its weakening effect upon the College has been apparent.

The policy followed elsewhere has with fair consistency conformed to the principle that all departments whose work is in the main *not technical or professional* are assigned to the College of Arts and Sciences. This College then becomes responsible as a service college for all fundamental and non-technical courses as well as for specialization in the interests of non-professional learning, thus having direct control of the major courses constituting the curricula for the degrees of the College.

The departments usually assigned to the Dean of the College of Arts and Sciences are those specified in the list found on page 25 of the Frazier Report. To these is very often added psychology.

Two types of objection will be advanced to this re-alignment of the department:

1. Some departments will feel that they may lose valuable privileges now enjoyed or in prospect. For example, the Department of Physics might feel that it would lose a certain connection with the Engineering Experiment Laboratory; the Department of Botany and Zoology might feel that they would not be so directly associated with the work of the Experiment Station, and might fail to profit by certain federal funds. The reply to this objection is that the interest of the Board of Trustees in the work of the science departments should be such as to guarantee equal or superior advantages to departments within the College of Arts and Sciences. It is the very fact that in the past facilities have not been provided so readily for the work of this College, that renders departments reluctant to disturb a more advantageous connection though it be anomalous.

2. The readjustment proposed may lead to a pressure for the duplication of departments or a splitting off of a few semi-technical courses from certain departments to constitute new

departments. In reply to this I would say that the policy in other institutions is overwhelmingly against such a course. It is recognized that duplication, and separation of closely allied work is inefficient and opposed to the highest type of scholarship in the University. Fewer large departments well manned are better than a larger number with overlapping and conflicting interests. The present anomalous distribution of departments, bad as it is, is preferable to developing new competing and conflicting departments. The whole tendency in modern universities is to give one department charge of a wide field and have it serve all colleges.

In support of some of the statements I have made I venture to append a list of the assignments of departments to the Dean of the College of Arts and Sciences. In a representative group of universities, I have chosen at random those whose variety of coordinate colleges presents much the same problem as we face here. I have reason for thinking that an extension of the list would merely sustain the testimony here offered.

In conclusion may I express my appreciation of your willingness to hear me voice my concern for the best interests of the College of Arts and Sciences, for in so doing I believe I am expressing my concern for the best interests of the University.

Very respectfully submitted,

W. E. HENDERSON, *Dean*.

TABULATION OF DEPARTMENTS ASSIGNED TO THE DEAN OF ARTS AND SCIENCES IN  
VARIOUS UNIVERSITIES

*The Ohio State University*.—American History, English, European History, Geology, German, Greek, Latin, Philosophy, Political Science, Romance Languages.

*Chicago*.—The Budget is made up by the Dean of the Faculties who calls in conference the other Deans. Aside from the work in Arts and Sciences, there are only two other Undergraduate Colleges—a School of Commerce and Administration, and a School of Education, both relatively small. The deans of these colleges represent the technical courses only. The Deans of Arts and Science represent all others.

*Cincinnati*.—Biblical Literature, Botany, Chemistry, Classics, Economics, English, Geology, and Geography, German, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Romance Languages, Sociology, Zoology.

*Columbia*.—Budgets are made by departments, and passed upon by a Budget Committee for all colleges (consisting of a small number of administrative officers of which the Dean of the College of Arts and Sciences is one), and sent by this committee to the Board of Trustees.

*Harvard*.—All the schools (colleges) are graduate in character save Engineering which is virtually so. The Dean of the College (Arts and Sciences) administers all College Departments.

*Illinois*.—The Dean of Arts and Sciences administers about twenty departments (he did not specify them). He states that they include all the usual departments with two exceptions—Physics is in the College of Engineering, and Home Economics in the College of Agriculture.

*Indiana*.—About nine-tenths of the work in the University is work in Arts and Sciences (the technical courses being at Purdue). The President directly oversees all departments, not the Dean, whose duties are purely academic.

*Iowa*.—Botany, Chemistry, English, Geology, German, Graphics and Plastic Arts, Latin, Greek, Mathematics, Music, Philosophy, Psychology, Physics, Political Science, Speech, Romance Languages, Zoology.

Economics is in the College of Commerce.

*Michigan*.—Astronomy, Botany, Chemistry, Economics, English, Fine Arts, Forestry, Geography, Geology, German, Greek, History, Landscape Design, Latin, Mathematics, Mineralogy, Music, Philosophy, Physics, Public Speaking, Political Science, Rhetoric, Romance Languages, Semitics, Zoology.

*Minnesota*.—Administration, Animal Biology, Anthropology, Astronomy, Botany, Comparative Literature, Comparative Philology, English, Geology, Geography, German, Greek, History, Journalism, Latin, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Romance Languages, Scandinavian, Sociology.

*Missouri*.—Astronomy, Botany, Chemistry, Classical Archaeology and History of Art, English, Geology and Geography, German, Greek, History, Latin, Mathematics, Philosophy, Physics, Psychology, Romance Languages, Sociology, Zoology.

*Pittsburgh*.—Botany, Chemistry, Economics, English, Greek, Mathematics, History, Latin, Modern Languages, Philosophy, Physics, Political Science, Psychology, Zoology.

*Pennsylvania*.—Anthropology, Astronomy, Botany, English, Geology, Germanic Languages, Greek, History, Latin, Mathematics, Philosophy, Physics, Psychology, Romance Languages, Zoology.

*Wisconsin*.—Botany, Chemistry, Classics, Economics, Education, English, Geology, German, History, Industrial Education and Applied Arts, Journalism, Mathematics, Music, Pharmacy,



Philosophy, Physics, Political Science, Romance Languages, Scandinavian Languages, Semitics, Speech, Zoology.

*Yale.*—The Dean of the College of Liberal Arts sits upon the Budget Committee of all colleges and the budget is made by all Deans, each presenting the needs of his college. The Dean of Arts and Sciences represents all non-technical courses.

#### CONCLUSION

In conclusion I may say that the year has been a successful one for the college. Its chief problem has been the overcrowding of all elementary sections due to an insufficient staff of instructors, and the difficulty of securing adequately trained and experienced instructors for these large sections. With the close restriction placed upon the salary budget for the next two years these difficulties are bound to increase rather than diminish. It is my opinion that the solution of this problem lies along the line of a much prompter detection of the student who is not really qualified for a college training or who has not sufficient character or purpose to apply himself, and the elimination of all such students at an early stage in their course.

Very respectfully submitted,

W. E. HENDERSON, *Dean.*

# ANNUAL REPORT OF THE DEAN OF THE COLLEGE OF COMMERCE AND JOURNALISM

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Commerce and Journalism for the year ending June 30, 1925.

The registration in the College for the year is as follows:

Summer Quarter .....	223	The number of graduates in	
Autumn Quarter .....	1631	1924-25 were as follows:	
Winter Quarter .....	1595	Men .....	162
Spring Quarter .....	1474	Women .....	32

The registration in each of the individual courses of each department of the College is as follows:

	Summer Quarter	Autumn Quarter	Winter Quarter	Spring Quarter	Total
Accounting .....	46	549	620	555	1770
Business Organization ..	39	1112	1369	1236	3756
Economics .....	181	1100	1110	981	3372
Geography .....	70	759	736	771	2336
Journalism .....	31	215	262	174	682
Sociology .....	195	641	707	768	2311
Total .....					14,227

The College has just closed the ninth year of its history. The registration of the College shows that it is the second college in size and that it is rapidly growing. From the point of view of physical equipment the College has been in much better condition the last year than ever before. The new buildings for Commerce and Journalism have given excellent opportunities for effective teaching. With the opening of the College Library, October 1, 1925, and with the installation of new equipment, the opportunities for effective teaching from these points of view will be greatly increased. Both the Commerce and Journalism Buildings are, however, at present inadequate. Many classes in commerce are now held outside the Commerce Building, and it will be necessary to hold many more classes in other than the Commerce Building this coming year.

The coming year the College will be greatly handicapped by an inadequate teaching force. Unless the registration of the College declines, many classes will have to be closed because of an insufficient supply of teachers. Although the legislature increased the budget of the University for personnel over \$216,000 for 1925-1926 over 1924-1925, the second largest college in the University and the most rapidly growing college received of this only \$5,000, and this amount was not given to the development of commerce. No funds were given for increases in salaries or employing new instructors. A number of the teaching staff have already resigned, and we expect other resignations before the University opens. With the salaries which those who resign receive, it will be necessary to employ less competent teachers to take their places.

The legislature gave \$60,000 a year for the development of the Bureau of Business Research, \$35,000 of which is to be expended on salaries and \$25,000 for maintenance. The Board of Trustees authorized this Bureau in January, 1919. In 1923 nearly \$10,000 a year was voted for the development of the



Bureau. A statement elsewhere in this report gives the present work of the Bureau. The amount given by the legislature will permit the development of a number of new activities by the Bureau and will enable the faculty of the College to enrich their courses, do more effective investigation in business and render a direct service to business men and business organizations.

The legislature also gave \$45,000 a year for extension service in Commerce and Journalism, \$25,000 of which is to be expended for salaries, and \$20,000 a year for maintenance. In a statement elsewhere in this report it will be observed that the College has been rendering a state-wide service to organizations naturally interested in the College. The Extension Department will broaden the scope of this work and in cooperation with the Bureau of Business Research, it will make the College function in raising the standards of business and in bringing the facts of business science to those engaged in business.

I enclose reports from the Chairman of the Extension Committee and the Acting Director of the Bureau of Business Research.

Very respectfully,

J. E. HAGERTY.

#### REPORT OF COMMITTEE ON EXTENSION

*To the Dean of the College of Commerce and Journalism:*

DEAR SIR—The work of the Committee on Extension Service during the year 1924-1925 consisted chiefly of the promotion and management of conferences of representatives of the various groups served by this college. The conferences held during the year were as follows:

1. Secretaries of Social Welfare Federations.
2. Management Week, devoted to the subjects of Office Management, Personal Problems, and Cost Accounting.
3. Semi-annual meetings of Secretaries of the Chambers of Commerce.
4. Newspaper Week, conducted by the Department of Journalism.
5. Tri-state Conference of Credit Men.
6. Annual convention of the Ohio Society of Certified Public Accountants.

These conferences were of value in that faculty members and students were brought into contact with men who have achieved success in the various lines of work taught in this college.

The Committee also maintained a speakers' bureau and supplied the Chambers of Commerce and Business Men's Clubs of the State with speakers chosen from the college faculty.

Owing to the fact that the Extension work of the College is to be broadened in its scope the coming year, a Director of Extension has been appointed to assume the responsibilities of this committee.

Very respectfully yours,

G. N. ECKELBERRY, *Chairman.*

#### REPORT OF BUREAU OF BUSINESS RESEARCH

*To the Dean of the College of Commerce and Journalism:*

DEAR SIR—The Bureau of Business Research submits herewith its annual report for the year 1924-1925. This report is in three sections, covering the following points relative to the activities of the Bureau: (1) personnel and appropriations of the Bureau for the year; (2) studies conducted and other services rendered by the Bureau; (3) program of the Bureau for the coming year.

#### PERSONNEL AND APPROPRIATIONS

During the past year the Bureau has operated on an appropriation for personnel of something less than \$10,000. Expenditures for maintenance have amounted to not more than \$1000 additional. The personnel of the Bureau has consisted in the main of part-time em-

ployees, who have been engaged also in work on the teaching staff of the College. This personnel has included the following individuals:

Howard C. Greer, Acting Director  
George W. Starr, Assistant Director  
H. H. Shively, Investigator  
Josephine A. Lowrie, Accountant  
Erla M. Wombold, Secretary

Some additional assistance of a minor clerical nature has been secured from other temporary employees, but this has been of very limited extent.

#### SERVICES RENDERED BY THE BUREAU

The Bureau has engaged in a number of studies of business problems, which are briefly discussed in the following paragraphs:

(1) Monthly Survey of the Wholesale Grocery Trade in Ohio.—A bulletin has been issued each month dealing with the volume of sales, outstanding accounts, collections, and price changes in the trade, both for the state as a whole and for several district subdivisions of the state. Information is collected each month from about 55 wholesale grocers, representing something over 50% of the total number of such concerns in the state. The bulletin contains index numbers of trade activity and collections, a chart showing averages and monthly tendencies for the two and one-half years during which the survey has been carried on, and also some explanatory comment on the changes from month to month and from year to year.

(2) Annual Survey of the Wholesale Grocery Trade in Ohio for 1924.—A bulletin has been issued showing the amount of sales, costs, expenses, profits, turnovers, and earnings on investment for the trade in the state as a whole. About 40 wholesale grocers submitted data from which this analysis was prepared. Individual reports were also made to the concerns collaborating in this study, showing comparisons of their results with the typical experience in the state.

(3) Analysis of Sales Force Expense in the Wholesale Grocery Trade for 1924, Including the Methods of Compensating Salesmen and Average Results Obtained by Them.—Over 50 concerns have contributed information for this study and a bulletin covering the findings is now in preparation.

(4) Monthly survey of the retail dry goods trade in Ohio.—A bulletin is issued each month dealing with the volume of sales, outstanding accounts, collections, and advertising expenditures in this trade, and containing also comment on current business conditions and other factors of interest to the trade. This bulletin is supplemented by another showing condensed reports of conditions in the retail dry goods trade throughout the country, as compiled from statistics furnished by the Federal Reserve Banks. The survey was begun early in 1925 and reports are already being received from something over 60 retail dry goods stores in the state. This number is steadily increasing and is expected to reach at least 100 within the next few months. The bulletin contains a chart showing graphically the monthly averages and tendencies as brought out by a set of index numbers based on reports received for the first month of the current year.

(5) Preparation of a Uniform Accounting System for Retail Furniture Dealers.—With the cooperation of the Ohio Valley Retail Furniture Association the Bureau has prepared a uniform system of accounts which has been adopted by the Association for the use of its members and will be distributed soon in bulletin form. This system not only includes a standard classification of income and expense items, but also deals in detail with the accounting methods and procedure within the stores, the number and form of the books of account, and the characteristics of the operating and financial statements to be prepared by the dealers at the end of each accounting period.

(6) Survey of the Proper Content of College Courses in Advertising.—This work, which is still under way, has consisted so far in the collection and analysis of reports from about 30 advertising agencies throughout the state, dealing with the material and methods considered by them desirable for training students in advertising. Similar inquiries are now being directed to those in charge of the advertising of prominent retail establishments in the state, with the intention of gaining further light on the attitude of practical advertising men toward such training. A partial report of the findings to date has been prepared for publication and will be supplemented by further data as soon as it is available.

The activities of the Bureau have not been confined to the studies carried on outside the College, as the organization has also rendered service to instructors and students in connection with special problems arising in their various fields. The Bureau has collected and made available to faculty and students a considerable number of current business publications and



reports, including bulletins of government departments, current surveys of financial and industrial conditions issued by banks and other organizations, trade publications in numerous fields, house organs of a number of representative commercial enterprises, bulletins of other Bureaus of Business Research, and the announcements of trade associations, technical societies, etc. Much of this material has been clipped, filed, and indexed so as to become part of the permanent records of the College.

The Bureau has also supplemented its studies through personal presentation of the results by members of its staff. Mr. Greer, Mr. Starr, and Mr. Shively have all appeared before trade association conventions and other meetings to deliver first-hand the findings of the Bureau in its various surveys and to explain the service offered by the Bureau to business men. In addition, most of the material collected has already been made a part of the various College courses which deal with the subjects under investigation.

#### PROGRAM OF THE BUREAU FOR THE COMING YEAR

During the coming year the Bureau expects to operate under a new director who will devote his full time to its activities, and to employ a considerably larger staff of investigators, analysts, and clerical workers. Through increased appropriations there will be possible an expansion of certain of the continuous studies now being conducted and the beginning of a number of contemplated surveys which have hitherto been impossible, due to lack of funds and personnel. Among the latter the following have been proposed:

- (1) A study of the retail furniture trade, to be conducted along lines similar to those used in the Bureau's service to the wholesale grocers and retail dry goods dealers—data to be obtained on the basis of the uniform accounting system referred to in a previous section;
- (2) A corresponding study for the retail clothiers of the state;
- (3) An analysis of certain commercial aspects of the building construction industry in the state, including a current report on employment, wage rates, labor turnover, etc.;
- (4) A study of operating results in the milling industry in Ohio;
- (5) Development of an index of purchasing power of consumers in various districts of the state;
- (6) An analysis of the distribution of retail sales by types of commodity, for selected areas;
- (7) Cooperation with other Bureaus of Business Research in the collection of data for the state of Ohio along lines corresponding with those followed by them either on a national scale or in other individual localities.

The Bureau also contemplates the extension of its service to students and faculty in collecting and making promptly available current business publications whose value is of a temporary character, such as press releases on surveys by government departments, bulletins on current and proposed studies, reports on business conditions, financial and economic forecasts, etc. An information service on sources of data on business problems, names and addresses of trade and technical associations, research organizations, etc., is expected to be maintained.

The Bureau should also be equipped to furnish service to other departments in the making of statistical analysis, preparation of charts and diagrams covering business data, and general cooperation in improving and keeping up to date the material used in all courses of instruction in the College.

Respectfully submitted,

BUREAU OF BUSINESS RESEARCH.

By HOWARD C. GREER, *Acting Director.*

## ANNUAL REPORT OF THE DEAN OF THE COLLEGE OF DENTISTRY

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Dentistry for the year ending June 30, 1925:

February 9th, 1925, the College of Dentistry took up its permanent home, on the campus, in the north wing of Hamilton Hall. The new home is at the present time half finished. One technical and one practical laboratory, one operative and one prosthetic clinic being of permanent nature, including the College office rooms, while other features are temporarily placed or else waiting the completion of the north wing. Orthodontia, Porcelain Technic, Oral Surgery in its various phases, children's dentistry or preventable measures, opportunities for seminar work, and progressive investigations will feature the addition to be looked for during the coming year. From the standpoint of physical being this will give the Ohio State University a splendid and well ordered housing for dentistry. Our occupancy this spring of part of Hamilton Hall convinces our dental faculty that close relationship with the entire medical unit, yet a distinct entity of our own, works to a great advantage for both branches of the healing art. I would like to quote:

My dear DR. SEMANS:

June 10, 1925.

At a recent meeting of the Dental Educational Council of America, the Secretary was instructed to inform you, for any significance it may bear, that the Council unanimously adopted the following minute: "The Council cordially endorses the Carnegie Foundation's formal conclusion that dentistry is an independent division of health service which is attaining the full equivalence of an oral specialty of medicine, and commends these views of the foundation to the attention of the public and of the medical and dental professions."

Cordially yours,

ALBERT L. MIDGELY, *Secretary*.

ALBERT L. MIDGELY.

June 29, 1925.

DEAR SIR—It is of interest to note that the Dental Educational Council of America unanimously adopted a resolution that will no doubt do a great deal toward crystallizing what is, and should be, the status of dental education, as well as the profession of dentistry. In fact, the two go together.

It seems to me that this resolution, while it does not separate dentistry from medicine, it at least makes it an independent health service which would go far toward combating a certain definite purpose to submerge or even swallow whole, dentistry.

Very sincerely yours,

H. M. SEMANS.

During the past few years, much thought has been given to dental education by all interested in the same. This, to such an extent, that the American Association of Dental Schools, at its meeting held in Chicago in March of this year, devoted its entire time to discussion on dental curricula, especially bearing on time that should be given, during both pre-dental and dental educational pursuit. At the present time, I am unable to say what the future allotment of time will be, but the following situations are now prevailing: A few colleges are still maintaining four years in dentistry with but graduation for a four-



year high school as prerequisite. A large number are requiring one year pre-dental and four dental. Several, including those in New York state and New England, two pre-dental and four dental; a few, two pre-dental and three dental; a few, five dental, and one is contemplated, three pre-dental and four dental, in the next year. There is also a desire on the part of a few to make the course, two years pre-dental, two years medical, and two years dental. Our own faculty believe the plan of two years pre-dental and four years dental to be the best arrangement, and contemplates such a change from our one year pre-dental, four years dental by the fall of 1927.

The report from the Carnegie Foundation, being conducted by Dr. William J. Gies, on Dental Education in the United States and Canada, is now in its final stages and will shortly be issued. This report will squarely place before the world what dentistry has been, is, and should be. It, the survey, has been conducted through the desire and sanction of the dental colleges of the United States and Canada.

The personnel of our faculty remained without change during the past year. Next year the faculty will change somewhat, in that Dr. Bottenhorn, M.D., D.D.S., will assume the full-time professorship of Dental Pathology; this work will allow the clinical diagnostic instruction to become of genuine educational service. Also, the full-time service of Dr. Paul Kitchin, B.Sc., M.Sc., D.D.S., will allow us to develop the preventive side of dentistry. Dr. Bottenhorn, because of years devoted in laboratory pathology, and Dr. Kitchin as an entomologist, should help materially in advancing our educational needs, in the various dental clinics, of the preventive aspect.

It is a great pleasure to note that the Surgeon General has detailed Major Lester C. Ogg for another year to our dental R. O. T. C. This will make his fifth year in this capacity. The first year divided between dental R. O. T. C. and clinical work at Fort Hayes, the past three years, however, full time with us. Major Ogg, a graduate of our own, has been always alert and keen in his appreciation of what is best in dental education.

Our student enrollment numbered as follows: Autumn Quarter—Freshmen 57, Sophomores 43, Juniors 18, Seniors 19. Winter Quarter—Freshmen 57, Sophomores 43, Juniors 19, Seniors 21. Spring Quarter—Freshmen 58, Sophomores 43, Juniors 19, Seniors 22. We graduated 22 in June; graduating five at the end of 1924, Summer Quarter. With a very much smaller number of Juniors and Seniors than last year, we had a total dental rotary infirmary fee collection of over \$10,000. The removal to the campus has increased demands for dental service to such an extent that we were unable to care for all who presented themselves; approximately about 3400 patients, however, being cared for. As the classes will enlarge, so will our ability to care for all who desire to come to the dental infirmary. Also the special features of dentistry will be materially enhanced and increased by our completed wing.

Our faculty has been active in various ways in college and professional work. Dr. Hebble served the past year as president of the Columbus Dental Society. Dr. Strosnider is the president of the same for next year, as well as being president-elect for next year of the Ohio State Dental Society. Dr. Graham last March was elected as secretary of the Oral Hygiene and Periodontology section of the American Association of Dental Schools. Dr. Semans, secretary of the Operative Section of the International Dental Congress, to be held in Philadelphia in August, 1926. Among papers and clinics given I note that Dr. Martindale read a paper on "Local Anesthesia" at the Eastern Ohio Dental

Society, gave a clinic at the Ohio State Dental Society on "The Treatment of Pyorrhea by Surgical Methods," and a paper before the Columbus Dental Society on "The Present and Future Needs of Dentistry." Dr. Starr gave a paper before the Ohio State Dental Society on "Necessity for Organized Reserve." A paper and clinic on phases of bridge-work at the Scioto Valley Dental Society, and a clinic at the annual meeting of the Rehwinkle Dental Society. Dr. Strosnider gave a clinic at the Summit County Dental Society. Dr. Bottenhorn gave a paper on "Pathological Phases of Dentistry" before the Columbus Dental Society. Dr. Snyder spent the month of August with Dr. Robert H. Ivy, Oral Surgeon, University of Pennsylvania, in special work of an oral surgical nature. Drs. Bottenhorn, Cottrell, Graham, and Semans attended the American Association of Dental Schools in Chicago, March, at the Congress Hotel.

Respectfully submitted,

HARRY M. SEMANS, *Dean.*



# ANNUAL REPORT OF THE DEAN OF THE COLLEGE OF EDUCATION

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report from the College of Education for the year ending June 30, 1925.

## STATISTICS

### I. Annual Enrollments, 1920-1921 to 1924-1925:

Under column (A) is shown the total number of different students enrolled during the first and second semesters or during the autumn, winter, and spring quarters of each year. Under column (B) is shown the total number of students in attendance during the summer session.

Year	A	Year	B
1920-1921.....	612	1920.....	279
1921-1922.....	745	1921.....	284
1922-1923.....	1004	1922.....	471
1923-1924.....	1170	1923.....	823
1924-1925.....	1412	1924.....	1007

### II. Enrollments by Quarters 1922-1923 to 1924-1925:

	1922-1923	1923-1924	1924-1925
Summer Quarter.....	471	827	1007
Autumn Quarter.....	713	981	1202
Winter Quarter.....	718	1007	1135
Spring Quarter.....	740	974	1149

### III. Students Graduated 1920-1921 to 1924-1925:

In the following table is given the percentage of increase for each year over the year preceding. It will be noted that the rate of increase in students receiving degrees from the College of Education is greater than the rate of increase for the University as a whole and also greater than the rate of increase in number of students enrolled in the College of Education. This condition seems to be due to the fact that we are every year receiving larger numbers of students who transfer with advanced credits from other institutions.

	Education	Growth per cent	University	Growth per cent
1920-1921.....	103		1104	
1921-1922.....	119	15.5	1182	7.06
1922-1923.....	160	34.4	1510	27.7
1923-1924.....	193	20.6	1456	-3.6
1924-1925.....	265	37.3	1675	15.04

### IV. Annual Enrollment by Colleges, 1924-1925:

Arts, 2587; Education, 2419; Commerce, 2038; Engineering, 1607; Graduate School, 1326; Agriculture, 1130; Pharmacy, 375; Law, 366; Medicine, 336; Arts-Education, 188; Dentistry, 146; Medicine, 82; Optics, 47.

Such statistics as may be desired above those herewith submitted have been incorporated in the departmental reports. The various recording offices of the University could well supply all necessary vital data since these offices are primarily concerned with statistical information covering the institution as a whole as well as the lesser units of the University. This would not only result in greater accuracy, compactness, unity, and a uniform basis of computation, but would afford departments an opportunity (a) to survey policies, (b) to suggest changes in educational procedure and practice, (c) to progress in teaching effectiveness and betterment programs in both teaching and research, and (d) to suggest improvement in organization.

The closing academic year reveals a considerable advancement in quantity and quality of students. Current opinion, in critical academic circles, places severe strictness on present-day student competency. A growing tendency to tar the whole student body with the stick of an undesirable minority discredits an institution and results in social injustices to an earnest and competent majority. That there is an increasing number of incompetents attending college is likely true; but it is equally true that the number of competents is greatly increasing. Collegiate standards are, with minor exceptions, in the control of the faculty. The quality of an institution's output is not to be found, essentially, in legislative enactments governing entrance nor in academic restrictions imposed for admission; rather do we find it a quality of the individual instructor, clothed as he is with almost complete autonomy with respect to control of student marks. The area of responsibility is not shifted by the contention that high standards are of necessity compromised by existing low standards. The problem still remains an internal one and will find its solution, in state-supported institutions, on the inside rather than in external legislation.

Our gravest concern always lies in the probable loss of men of acknowledged resourcefulness with respect to teaching effectiveness and quality of research. It is a doubtful procedure to permit exceptional members of the teaching personnel to leave the staff for purely economic reasons, except when such reasons do not apply to teaching positions. This applies equally to men of evident promise. It is equally dubious to practice economy in enlarging the teaching staff. Quality, not quantity, is here referred to. The upper margin constituting the difference between an average salary and a superior salary yields the highest rate of returns as industry has always recognized. To practice parsimony except with respect to futile intelligence of abbreviated imagination relegates an institution to a position of certain inferiority. Over a period of more than a decade I have witnessed the tragic exodus of practically unreplaceable talent.

The past decade has witnessed a persistent growth in the size of classes. This ominous situation, by reason of its insidious character, is disquieting to those who penetrate its educational significance. In one department there are at present fifty-six classes with a minimum enrollment of fifty and a maximum of one hundred and thirty-four students. Instruction in these circumstances can only proceed on the lecture level. The beginning student is without recourse and must accept a classroom procedure adapted to students of advanced training. This is mass education with all the attending evils incident to mass vision, and presents a situation from which there appears no immediate or remote escape.

The Department of Psychology, during the current year, has given serious thought to the problem of elementary instruction. It appears that sooner or later the department, and departments of like size, will be driven to large assemblies of freshmen and sophomores for lectures by men of wide teaching experience. In a five-hour course, for example, three hours may be devoted to lectures and demonstrations and the remaining two hours devoted to small quiz sections. This procedure will involve a large number of quiz masters drawn from the best of the graduate students. Frankly, this is compromising with what is regarded as best in educational methodology. Private institutions protect themselves against this practice by limiting their students to the number appropriate to limited resources and facilities. Obviously, public institutions, by their very nature, cannot follow private practice in this re-



spect. Nor should it be necessary, theoretically at least, since the resources of any commonwealth are always in excess of private resources, and since the care and nurture of children constitute a first lein on a people's resources.

During the current year the Division of Clinical Psychology initiated an interesting study of maladjustment among our student body. This movement is now under consideration by a number of better universities, as is increasingly evident from articles appearing in leading educational periodicals.

The probation lists in all colleges of the University are surprisingly large, and the corresponding mortality is exceedingly heavy. This large fraction of the student population of the University has been an object of overmuch solicitude, and not a little of opinion and random judgment have been bestowed on those who compose this fraction.

The Clinic under the direction of Dr. Goddard is now making a careful analysis of all probation students in the College of Education. The immediate objectives of this study are: (1) to determine the degree to which lack of native competency contributes to the probationary status; (2) to determine what factors other than lack of hereditary endowments are contributory to academic delinquency; (3) to determine a procedure, on the basis of objective tests and clinical data, which will select those among the probationers who can regain and maintain a creditable scholastic status.

Space forbids a detailed account of the preliminary results of the investigation. One or two significant factors may be given brief reference. Serious physiological disturbances, when removed, have resulted in surprising academic recovery. Correction of pernicious habits of study formed in the lower and secondary schools likewise resulted in steady improvement. Conditions in rooming houses are important beyond what is ordinarily believed. The number of hours undertaken while on probation is not significant. Conservative conclusion has it that 37 per cent of the probation students should have been discouraged from attempting a college education. Roughly, this corresponds to the findings of the University Intelligence Tests. Important administrative guidance may be expected, but only after a most careful and far more exhaustive study has been made.

Respectfully submitted,

GEORGE F. ARPS, *Dean.*

## REPORT OF THE DEAN OF THE COLLEGE OF ENGINEERING

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report from the College of Engineering for the year ending June 30, 1925.

### ENROLLMENT

	Fall Quarter	Winter Quarter	Spring Quarter
Architecture .....	91	81	67
Architectural Engineering ...	71	85	73
Ceramic Engineering .....	90	88	77
Chemical Engineering .....	109	106	97
Civil Engineering .....	237	231	199
Electrical Engineering .....	401	379	324
Mechanical Engineering .....	209	205	189
Metallurgical Engineering ...	39	38	36
Mine Engineering .....	54	48	41
Engineering Physics .....	4	3	4
Unclassified .....	61	63	58
	<hr/> 1366	<hr/> 1327	<hr/> 1165

There was an increase of 2 per cent in the total enrollment of the Fall Quarter over that of the corresponding quarter of the preceding year. The growth curve for the College based upon enrollment for twenty-five years shows that war conditions are past and therefore normal increase may be expected. Continuing the general direction of the growth curve we find that in 1930 the enrollment should be 1600 students which is a very conservative indication. We cannot maintain quality if growth is at a much greater rate. The entering class of this year showed an increase of 11.5 per cent or 45 students over that of the preceding year and this increase occurs in the departments of Architecture and Ceramic Engineering. The normal increase for the College over a period of twenty-five years is 33.6 students per year.

Under the semester plan the drop in enrollment between semesters was fairly constant at 8 per cent. Last year the drop between quarters was 3.2 per cent and 8.1 per cent respectively. This year these values are 3 per cent and 12.2 per cent respectively. The reason for this quarter shrinkage between winter and spring quarters will be explained later in this report.

Registration in the second year continues in excess of the number who entered as freshmen the year before. The close cooperation which exists between this college and other state institutions and the fact that many are encouraged to get their first year of work in their local college are responsible for this excess. Toledo University is by far the most active "feeder" and their work is so co-ordinated that their students usually enter with two years of credits. Our policy is to encourage those students living in Ohio college towns to get at least one year of work in their institution. We realize the advantages to the student in beginning his university education at a small institution where classes are small and where there is greater personal contact between teacher and student. On the other hand we know full well the advantages of reducing the load on our plant. Our classrooms are crowded



and many class sections much too large. For many reasons therefore we wish to emphasize the importance of Ohio institutions serving as feeders to our College.

We would particularly recommend to students contemplating entering the engineering college the liberal training of their high schools rather than the technical and if the student is so situated and able to do so, we advise at least one year—two would be better—in a local college before entering the second year of the Engineering College.

#### GRADUATES

The number of degrees granted at commencements during the year was as follows:

Bachelor of Architecture .....	10
Bachelor of Architectural Engineering .....	8
Bachelor of Ceramic Engineering .....	12
Bachelor of Chemical Engineering .....	21
Bachelor of Civil Engineering .....	47
Bachelor of Electrical Engineering .....	45
Bachelor of Mechanical Engineering .....	35
Bachelor of Metallurgical Engineering .....	6
Bachelor of Engineering Mining .....	8
Bachelor of Engineering Physics .....	1
	<hr/>
	198

The total number of graduates is one in excess of the number last year which indicates normal conditions. The greatest increases over the numbers of last year were in the departments of Ceramic, Chemical and Civil Engineering with decreases in Electrical and Mechanical Engineering.

#### FACULTY AND INSTRUCTION

Professor F. H. Eno of the Department of Civil Engineering was on leave of absence in order to cooperate with the United States Bureau of Public Roads and the State Highway Department in road investigation work for the State of Ohio. Cooperative work of a similar character is being carried on in several other states. It is expected that the investigation will be continued for another year. Information relating to this investigation is given in this report under the heading "Experiment Station". Professor Eno's title is Director of the Ohio Road Sub-soils Research and with his headquarters and laboratories on the campus he has been able to direct his usual amount of thesis work. His class work has been looked after by J. C. Pryor, a very able engineer of wide practical experience.

Professor F. C. Caldwell was on leave during the autumn, winter, and spring quarters, having obtained sufficient vacation credit by teaching summer quarters. He spent the first quarter at Prague, Czechoslovakia, giving lectures on Electric Illumination and Electric Transmission at the Czech Institute of Technology at Prague and also at Brunn. These lectures were under the auspices of the Minister of Foreign Affairs. Other lectures were given under the auspices of the German Institute of Technology, the Czech National Society of Electrical Engineers and the Austrian Society of Illuminating Engineers at Vienna. Several lectures were translated and printed in engineering society publications. Professor Caldwell also visited many power plants, factories, and laboratories in many different countries and cities.

Professor T. E. French was granted a leave of absence for the winter and spring quarters. He has been visiting the British Isles, many countries of Continental Europe, and also Egypt and Palestine. He is visiting many universities and is making a collection of old manuscripts and etchings.

Professor H. C. Lord, who was relieved of all work over one year ago on account of failing health, has spent most of the past year at Delaware Sulphur Springs Sanitarium where he is seeking a recovery of health. Professor E. S. Manson has carried on most faithfully the entire work of the department with the exception of the work during the spring quarter. He had temporary assistance at that time.

There was one resignation above the rank of Instructor—Professor C. B. Harrop of the Department of Ceramic Engineering. Professor Harrop's engineering practice in the direction of installation of The Harrop Continuous Kiln for the burning of ceramic material became so large that it would have been impossible for him to carry on his university work with any degree of satisfaction, to either himself or to the department. Professor Harrop had been connected with the University since 1910 and on account of his wide practical experience added greatly to the strength of the department. His work during the past year was carried by different members of the department carrying an extra load and through a special arrangement with Professor R. C. Sloane of the Department of Civil Engineering.

For the first time in many years death entered our teaching force. Professor J. B. Preston, who had been in failing health and not able to meet classes for some time, died suddenly on May 20. Professor Preston graduated from the University of Virginia in 1896 and had been a member of the Department of Mathematics of Ohio State University during the past nineteen years.

The Dean of Engineering upon assuming his new duties in July, 1920—and at the request of the President, gave at once some study to the Department of Industrial Arts. It was felt that the several shop laboratories of this department could serve a much greater field and therefore after much thought and study a committee on Industrial Engineering was appointed and on March 1, 1924, they made recommendations that a four-year curriculum in Industrial Engineering be added to the college curricula and that the title of the present department of Industrial Arts be changed to that of Industrial Engineering. Their recommendation was adopted by the Engineering Faculty and on April 16, 1925, the Board of Trustees authorized the creation of such a department in the College of Engineering and Mr. John Younger, Consulting Engineer of Cleveland, was elected by the Board as head of that department.

Mr. Younger was educated in Scotland, graduating in 1903 from Glasgow University with the degree Bachelor of Science in Mechanical Engineering. He served his apprenticeship at the Glasgow Locomotive Works and at the same time taught mechanical subjects for two years in Glasgow Technical College Extension Courses. Later he was Assistant Works Manager of Arrol-Johnston Motor Car Company, Paisley, Scotland. In 1906 he joined Dennis Brothers, Ltd., Guildford, England, where he had charge of shop organization. He later became Assistant General Manager which placed him in charge of sales and purchasing. He came to the United States in 1910 to organize the shops of Hudson Motor Car Company. This plan fell through due to financial conditions, therefore he joined the organization of the Pierce Motor Car Company as Chief Engineer of Truck Division. During the war Mr. Younger was Consulting Engineer for the Government and in 1917 was called to Washington



to take charge of Engineering of Motor Transports. Later he was made Chief of Engineering Division of the Motor Transportation Corps, having general supervision of all motor vehicles used in the army. For this service he was awarded the Distinguished Service Medal. After the war he became connected with the Standard Steel Car Company of Pittsburgh, as Assistant to the President, then later became Vice-President and General Manager of the Standard Parts Company of Cleveland.

He is Editor and Publisher of Automotive Abstracts, and also Associate Editor of American Machinist. He always has been actively connected with national and local engineering societies and was responsible for the beginning of Management Week which is now an annual affair throughout the United States. We are, I feel, to be congratulated upon being able to secure Mr. Younger. His very wide experience will not only add greatly to the prestige of the Engineering College, but will be a dominant factor in making our department of Industrial Engineering one of the strongest in this Country.

The third year of the newly established course in Survey of Engineering for freshmen engineers continued with the same degree of success as heretofore. The notes prepared by about one-third of these students were exceptionally well done. This method of freshman student contact which has now been in practice five years in the College of Engineering is becoming quite universal in other Engineering Colleges of this country.

The series of lectures given throughout the year under the caption of "Broaden Out Engineers" were very successful and were as follows:

Mr. L. W. Wallace, Secretary American Engineering Council, "What Is Ahead for Engineers"

Mr. Robert T. Kent, Consulting Engineer, "Production Control in Modern Industry"

Professor George R. Twiss, "Science and Science Teaching as Related to National Progress in China"

Mr. Harold Almert, President American Association of Engineers, "The College Engineer and His Future"

Professor T. E. French, "Modern Methods of Graphic Reproduction"

Professor C. O. Ruggles, "Some Modern Day Problems of Industry and Business"

Professor Ralph Fanning, "The Artist and the Engineer"

Mr. H. A. Toulmin, Jr., Jus. Doc., "Invention and Industry"

Mr. Hans Ibsen, Engineer of Bridges, Michigan Central R. R., "The Niagara Gorge Arch"

Mr. J. A. L. Waddell, Eminent Bridge Engineer, "Economics of Engineering"

President William F. Durand of the American Society of Mechanical Engineers, "Some Phases of Engineering Peculiar to the Pacific Coast"

Mr. Herman T. Kraft, Chief Aeronautical Engineer, Goodyear Tire and Rubber Company, "The Development of Semi-Rigid and Rigid Dirigibles"

President W. O. Thompson, Annual Talk to Engineers.

#### NEW EQUIPMENT

The University Broadcasting Station had a most satisfactory year and much credit is due those who were responsible for the excellent service rendered. The results produced were especially remarkable in view of the inability to purchase important equipment; the "homemade" improvised method was responsible for the Station's success. The mail received by the Station was from 600 to 1100 pieces per week and responses were received from Honolulu and Central America.

Professor Boyd's materials laboratory went into service with the beginning of the autumn quarter. All equipment was installed during the summer quarter, its erection being personally supervised by Professor Boyd. There

are now six testing machines of different types and capacities in this laboratory and to these another is now being added, purchased through the Morrill Fund.

All departments of the College were greatly helped by new equipment made possible through a special division of the Morrill Fund. The Department of Mine Engineering was able to equip a ventilating laboratory, space provision for which was made at the time Lord Hall was built. This department has been without a laboratory of this kind since the burning of the Chemistry Building in 1903.

Many of our departments have received donations of equipment throughout the year. I wish to mention particularly the gift of an ultra microscope to the Department of Chemistry by Trustee J. F. Stone. In years past other departments also have profited by his generosity.

#### BUILDINGS

The Department of Chemistry did not experience much relief in the completion of its second laboratory unit due to no funds for equipment. Chemical Engineering did utilize some of the new space during the spring quarter. Equipment funds are now available so that all freshman work will be provided for in the new building and the Barracks, we are happy to say, will be abandoned.

The completion of the Mechanical Engineering addition to Robinson Laboratory has increased the floor space of that department by 70 per cent. This addition will relieve the congestion in the several classrooms and it provides a most excellent drafting room for the Department of Machine Design. More space will be made available for hydraulic work due to relocation of the laboratory shop and ample floor space is provided for work in Automotive Engineering and in Heating and Ventilating.

On account of abandonment of University Power House and also the elimination of the reservoir which was an important adjunct thereto and also to the Department of Mechanical Engineering, it will be necessary to convert the south end of the abandoned coal pit into a reservoir for the Department of Mechanical Engineering. It would be impossible to operate certain steam equipment of that department without an auxiliary water reservoir.

The Department of Electrical Engineering has experienced relief due to availability of space in the old Aviation Building made possible by the Department of Agricultural Engineering moving into a new building. This space was available at the beginning of the Spring Quarter and the Department of Electrical Engineering at once utilized it for much of their classroom work and for the expansion of the Broadcasting Station.

The beginning of the Engineering Experiment Station Building and its completion in the Fall will furnish relief in several directions. The State Highways Laboratories now in the basement of Brown Hall will be located on the second floor. The Cooperative Topographic Water Survey of the State now occupying space in the basement of Brown Hall will be located on the fourth floor. The Road Materials Testing Laboratory now using space in the Cattle Barns will be located on the third floor. The cement and concrete laboratories of the Department of Civil Engineering now located in Brown Hall and in the Industrial Arts Building, will be on the first floor. The coal, gas and metallurgical research work, conducted by the Department of Metallurgy



for the Engineering Experiment Station, will occupy space on the first, second, and third floors.

Although the steel work in this new building was primarily designed for a power plant it has worked out most admirably for the purpose of the Engineering Experiment Station and on account of the purpose for which the original design was made the building is so strong that there need be no hesitation as to the weight requirements of any experimental work which the Station may be called upon to do. Great credit is due the Department of the University Architect for the excellent way in which this structure has been utilized. The general appearance of the building has been admired by many outside engineers who have had occasion to visit the building. This plant should be one of the outstanding features of the Engineering College.

#### THE ENGINEERING EXPERIMENT STATION

The personnel of the Advisory Council of the Engineering Experiment Station for the year ending June 30, 1925, was:

E. A. Hitchcock.....	Director
Clyde C. Morris.....	3 years
J. R. Withrow.....	3 years
D. J. Demorest.....	2 years
F. W. Marquis.....	2 years
F. C. Caldwell.....	1 year
Alpheus W. Smith.....	1 year

My report for the year ending June 30, 1924, contains a list of projects which were active at that time. Several of these projects were completed and as a result the following bulletins and circulars are being published:

Coal Losses in Ohio—Bulletin No. 29, by J. D. Sisler and C. A. Allen of the United States Bureau of Mines, and Professor H. E. Nold of Ohio State University.

Thermal Conductivity of Alloys—Bulletin No. 30, by Professor Alpheus Smith.

Making of Dolomite Brick and a Study of Their Properties—Bulletin No. 31, by A. I. Andrews, G. A. Bole, and Professor J. R. Withrow.

Ohio State University Broadcasting Station—Circular No. 12, by Mrs. F. G. Charles and R. C. Higgy.

Transition from Natural to Artificial Gas—Circular No. 13, by Professor D. J. Demorest.

#### PROJECTS AUTHORIZED DURING THE YEAR

Coal Losses in Ohio—Foreword by Professor H. E. Nold. Now published as Bulletin No. 29.

Effect of Furnace Conditions upon Load Tests for Refractories—by L. F. Sheeran.

Study of Bonds for Spinel Refractories—by H. G. Fisk.

The Heat Required to Fire Ceramic Bodies—by A. E. MacGee.

The Betterment of Ohio Coals—by Professor D. J. Demorest.

Ohio State University Broadcasting Station—by Mrs. F. G. Charles and H. C. Higgy. Now published as Circular No. 12.

Flow or Plasticity of Concrete—by Professor J. R. Shank.

Three of these projects are carried on through a cooperative fellowship agreement between the United States Ceramic Experiment Station and the Engineering Experiment Station. This cooperative arrangement has now been in very successful operation for two years and it is hoped that the plan will continue from year to year. Bulletin No. 31, "Making of Dolomite Brick and a Study of Their Properties," is a product of this cooperation.

There has now been published by the College of Engineering and the Experiment Station thirty-one bulletins and thirteen circulars. Many bulletins

are out of print which is unfortunate on account of requests for these from all over the world. We feel that a most creditable showing has been made since 1911, the year the first bulletin was published. This bulletin was written by Professor Edward Orton, Jr. Thirty-one bulletins in fourteen years does not look like a large production but we feel that the showing is a very creditable one, when we consider the high pressure of University work upon the Professors in the College of Engineering and that no special appropriations were made for the Station work until 1919. I question whether there is another division of the University which has contributed as much valuable material to its particular field for as little cost as has been done by this Station.

The greatest need of the Station is greater appropriations so that there may be employed several full-time assistants who will be experienced, each in a particular field of engineering. At the present time the Stations of Colorado, Illinois, Indiana, Iowa, Kansas, Massachusetts, North Carolina, and Pennsylvania are receiving appropriations in excess of the Ohio Station. The facilities which are available in the several departments of the College and which will be available in the new Station Building, make possible many different lines of work. Contact should be made with engineering enterprises of the State so that they will know about the Station's facilities that the service of the Station is available for solving some of their problems. The Station with its three large testing machines, ranging in capacities from 400,000 pounds to 1,000,000 pounds will not be equalled in this particular line by any university station in the country.

There are several important projects which have been active for a year or more and considerable could be said about the value of these. I would, however, mention only one and that is the one relating to the investigation of the Federal Aid Roads of Ohio. This project is carried on in cooperation with the United States Bureau of Public Roads and the State Highway Department. The sub-soil conditions at 175 different places are being studied, moisture changes at varying depths are being investigated at 50 different stations, sample roads are being built and the movement of the concrete slabs are being determined. This investigation should ultimately be responsible for the savings of very large sums of money to the State.

#### GENERAL CONSIDERATIONS

That factor which seems to occupy the foreground and is decidedly in the lime light at the present time is the great concern which many of us have relative to the seemingly many poor students who are entering our several colleges. Our feeling of responsibility in this direction has led to some experimental work upon the student who can have nothing to say about it. It is so easy to sit back and create rules and regulations in order, as we believe, to improve our product, but may we not be in error in our judgment dealing with this humane material and are we not in danger of discarding some "brilliant" along with that which is set aside. Many a young man of apparent mediocre ability has developed and advanced remarkably by world contact, after leaving college.

Three years ago a "point system" of grading went into operation in the Engineering College because it was the desire to make such a system uniform for the University. Up to that time certain colleges only were using such a system. After the new system had been in operation for several quarters it was discovered that a particular feature of the new rule did not place as many



on probation or drop them from their college as heretofore. In fact, the rule was most peculiar in its operation to say the least. To many the new rule seemed equitable as long as there had been introduced an added requirement at the end of nine quarters or the end of the Junior year. The plan made it possible for many of our men to obtain three years of University training but not four. Nevertheless, the rule was not satisfactory to an apparent majority and higher "hurdles", more of them were adopted for probation and "out under rules" cases. As a result of the added requirements the numbers of our students being placed on probation and going out under rules has increased greatly.

The hours requirement for graduation in this College are from forty to fifty in excess of the same requirement of the other colleges of the University. This means that engineering students at graduation must really have about eighty points in excess of those students in other colleges. Also at the end of the Junior year or after nine quarters, the engineering student must have about sixty points in excess over the requirements of other colleges in order that he may comply with a rule requirement and remain in college.

This extreme requirement has resulted in our being compelled to notify about 18 per cent of the Juniors that they are out of college under this ruling. In view of our heavy engineering requirements which are comparable with the engineering schools, it appears to us therefore that there are two features of the point system rule which are decidedly unjust to our students and these are:

First, the continuing to charge up to a student a failure the subject for which has been repeated in class and successfully passed by him. He has no alternative in view of our fixed curricula, he cannot select an easier subject or get rid of one which is naturally very difficult for him.

Second, the dropping of a large percentage of students at the end of the Junior year although they may have passed all of the required subjects up to that time, is of very questionable value. In our great eagerness to create rules which we somehow believe will improve scholarship and therefore eliminate what we believe to be the "misfit", there is very great danger of our clinging to the idea that education and preparation for life's service is dependent entirely upon academic records. I decidedly question such a position. While we do desire scholarship and we do know that the probabilities of success are higher among that group of students who have done good work yet we must not forget that there are many others who had great difficulty while in the University and who are now having a most successful career.

I am very much afraid that many of us are partially blind to our own shortcomings and are prone to criticise unfairly the preparatory schools, the students' environment, the students' attitude, and the students' ancestry. As we look over our student body do we look upon every individual as a possibility of greater or less degree and do we take the position that it is our responsibility to make something out of every young man. I am sure that many of us will admit that President L. D. Coffman of the University of Minnesota was correct when he said:

"We have devoted too much attention recently to thinking about finances, how to get rid of students, and the introduction of administrative devices. The welfare of the student has almost been lost sight of. Many of our educational conferences devote the major share of their time and attention to the consideration of new standards for the selection of students. I have no quarrel with that. But on the other hand, I am convinced that far more time must be

given to the consideration of educational aims, educational principles, programs of study, the improvement of teaching, and stimulation and study of the students. These are the things that will pay the biggest dividends."

The most outstanding event of the year, and in fact of many years, was the celebration of the Thirtieth Anniversary of the Beginning of Ceramic Collegiate Education. This celebration was held on February 16 and was a co-incidence with the annual meeting of the American Ceramic Society which was held in Lord Hall during that week.

There were present 878 delegates from all parts of the country and it was most interesting to learn that 110 of these received their training at Ohio State University. Collegiate training in Ceramic Engineering which had its beginning at this University thirty years ago is now offered in ten universities in the United States and one in Canada and in several abroad. It was twenty-seven years ago also that the American Ceramic Society was founded at this University. The establishment of this, the first school in Ceramic Engineering and also the organizing of the American Ceramic Society was all due to the initiative of Professor Edward Orton, Jr. In recognition of his services the Society at this meeting established a fellowship to yield ultimately \$600.00 a year. This fellowship is named in honor of General Edward Orton and will be given to that student in Ceramics who shows the best ability to carry on research work.

The speakers at the Anniversary celebration held in the University Chapel were, President Thompson with his usual happy words of welcome, General Orton, who described the founding of the department and spoke of its early struggles, and Professor A. S. Watts, Head of the Department of Ceramic Engineering. In addition to these were the following addresses:

"Thirty years' Progress in Ceramic Education," by A. V. Bleininger.

"The Future of Ceramic Education", by Dr. E. Ward Tillotson.

"Early Stages of the Science of Ceramics in America", by Dr. Carl Langenbeck

"The Need of Facilities for Ceramic Education in Eastern Canada", by General C. M. Mitchell.

"The Development of Ceramic Education in America", by R. D. Landrum.

This program was followed in the evening by a reception to the delegates by President and Mrs. Thompson and the Engineering Faculty, followed by an interesting program of stunts put on by the students of the Engineering College. The Anniversary Celebration was a happy event and the Society Meeting was an exceedingly satisfactory one. Very great credit is due Professor A. S. Watts, Head of the Department of Ceramic Engineering, and Mr. Ross C. Purdy, Secretary of the American Ceramic Society, for the very important parts they played in making this celebration and society meeting a great success.

Respectfully submitted,

E. A. HITCHCOCK, *Dean.*



## REPORT OF THE DEAN OF THE COLLEGE OF MEDICINE

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the College of Medicine for the year ending June 30, 1925.

### ENROLLMENT

During the year there were enrolled in the College of Medicine 326 students. Of this number 325 were enrolled in the regular four-year Medical Course and one was a special student taking work in Public Health Nursing. There were 10 women and 315 men enrolled in the regular Medical Course. An increasing number of students registered in the College of Medicine have either received the degree of Bachelor of Arts or of Bachelor of Science or are candidates for these degrees under the combined Arts-Medicine curriculum. In my report of last year I directed attention to the fact that some steps should be taken to interest the other Ohio colleges in recognizing the medical work done in connection with the granting of Bachelors' degrees. There are several Ohio colleges which give pre-medical work and it would be highly desirable from the students' standpoint as well as the Medical College standpoint for these students to be granted the Bachelor's degree on the successful completion of one, two, or three years' work in the Medical College. There seems to be some sentiment among a few of the Ohio colleges to carry this program into effect.

As in the year of 1923-1924 the University Examiner has selected students for entrance into the College of Medicine on the basis of their pre-medical scholarship. A standard of 1.8 credit points average has been insisted upon and the class of students from the standpoint of scholarship has been very materially improved. When the scholarship standard of pre-medical work was put into effect the University Examiner, of course, had some difficulty in evaluating the grades of other Ohio colleges giving pre-medical work, e.g., an "A" grade in the College of Arts of Ohio State University is not necessarily the same as an "A" grade in another college. However, considerable experience has been gained and the question of grade evaluation is becoming more and more an exact process with the factor of error reduced to a minimum.

### FACULTY

Very few changes have taken place in the Faculty during the last year. It is with regret that we record the death of Dr. Yeatman Wardlow, Professor of Clinical Gynecology. Dr. Wardlow has been a member of the Faculty of the College of Medicine since the University in 1914 entered upon a program of medical education. He was also a member of the Faculty of the antecedent schools. Dr. Wardlow died suddenly while performing an operation for appendicitis. Dr. Wardlow's position on the Faculty was filled by the appointment of Dr. Fred Fletcher, Assistant Professor of Surgery, as Professor of Clinical Gynecology.

Several additions have been made to the Faculty. Dr. J. B. Brown was appointed to the position of Assistant Professor of Physiological Chemistry.

Dr. Albert D. Frost was appointed Instructor in the Department of Ophthalmology and Oto-Laryngology. Quite a number of minor changes were made in the minor positions in the faculty.

#### TEACHING AND RESEARCH

The research program of the College of Medicine has been carried on with considerable activity during the last year. A large number of publications have been issued in the various standard scientific journals. Improvements have been made during the year in the character and grade of teaching, particularly in the clinical departments of the College of Medicine. The fundamental departments are at present on a sound teaching and research basis. From year to year improvements are made in clinical teaching. We are fast approaching a satisfactory standard basis. The general program of teaching and research has been materially advanced since the transfer of the College of Medicine in the Fall of 1924 to the new quarters in Hamilton Hall on the Campus. Under the present arrangements practically all of Hamilton Hall is used for teaching, while Kinsman Hall is devoted entirely to research.

Especially mention should be made of the grants of \$200.00 from the trustees of the Bache Fund and \$2500 from the Institute of American Meat Packers for research in the Department of Physiology. These grants were made as personal grants to the Head of the Department, Dr. R. G. Hoskins. This department has issued an unusually large number of research studies, a list of which is recorded in The Publications of the Teaching Staff.

#### UNIVERSITY CLINICS

The College of Medicine conducts its clinics in the University Hospital, St. Francis Hospital, Children's Hospital, and the State Street Dispensary. A special obstetrical out-patient clinic is also conducted and obstetrical service is carried on in the maternity pavilion of the University Hospital as well as in the Florence Crittenton Home, the Friends' Rescue Home, the Elizabeth Home, and the Price Home for Colored Girls. Five hundred and thirteen women were delivered in this service during the year ending June 30, 1925. Three prenatal clinics are also conducted at the State Street Dispensary by this department. A detailed report of the activities is attached herewith.

#### UNIVERSITY HOSPITAL

Total number of admissions.....	1806
Total number of discharges.....	1705
Total number of bed days.....	20907
Total admitted to the following services:	
Surgery .....	723
Gyn.....	107
G. U. ....	90
Obs.....	257
E. N. T. ....	120
Medicine .....	510
Total number	
Recovered .....	515
Improved .....	890
Nonimproved .....	72
Died .....	43



## ANNUAL REPORT

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O. P. D. ....	276
Males .....	866
Females .....	940
Black .....	330
White .....	1476
Clinical .....	907
Private .....	613
Out .....	286

## Report from Maternity Pavilion:

Total number births (Maternity).....	257
Legitimate .....	244
Illegitimate .....	
Male .....	8
Female .....	5
Delivered private homes.....	103
Delivered Institute homes.....	153
Total births .....	513
Stillborn .....	6
Premature .....	7

## Operations:

Versions .....	9
D. and C.....	2
Forceps .....	31
Repair .....	41
Abortions .....	6
Crainotomy .....	1
Breech .....	13
Caesarian .....	2
Circumcision .....	14
Transfusions .....	1

## Total number patients cared for in the operating room:

Majors .....	302
Minors .....	63
T. and A.....	117
General anesthetics .....	504
Local anesthetics .....	122
Fractures .....	35
Cystoscopic examinations .....	191
Application of casts.....	27
Transfusions .....	14
Bronchoscopies .....	2

Total number patients examined in X-ray room.....	604
Total number patients re-examined .....	29
Total number patients treated .....	1

## UNIVERSITY HOSPITAL TRAINING SCHOOL FOR NURSES

Number of Students in training, July 1, 1924.....	23
Number of Students entered .....	21
Number of Students transferred from other schools.....	6
Number of Students in 5-year course in hospital during year.....	2
Number of Students completing training .....	7
Number of Students on leave of absence.....	1
Number of Students suspended .....	1
Number of Student deaths.....	1
Number of Students remaining June 30, 1925.....	35
Number of days' illness among student nurses.....	215
Number of days' nursing care given to hospital by student nurses.....	8,339

## THE OHIO STATE UNIVERSITY

## ST. FRANCIS HOSPITAL

Patients treated .....	2147
Patients discharged .....	1896
Deaths within 48 hours.....	59
Deaths institutional .....	75
Deaths post-operative .....	12
Patients remaining July 1, 1925.....	105
Major operations .....	310
Minor operations .....	228
T. & A.....	227
Ambulatory emergencies .....	190

## CHILDREN'S HOSPITAL

October 1, 1924-July 1, 1925 (since entering new hospital)

Number admitted .....	1182
Number discharged .....	1159
Number—	
Died .....	51
Recovered .....	674
Improved .....	385
Unimproved .....	49
Number of—	
Plaster casts applied.....	107
Neo-Arsphenamine treatments .....	176
Surgical operations .....	116
Eye, ear, and throat operations.....	425
Average attendance .....	49
Laboratory report—	
Blood counts .....	204
Urinalysis .....	1086
Vaginal smears .....	456
Wassermans .....	990
Nose cultures .....	839
Throat cultures .....	859
Von piquets .....	582
X-rays .....	199
Fleuroscopic exams .....	63
Dispensary attendance .....	5954

## STATE STREET DISPENSARY

The most notable change that has taken place at State Street Dispensary during the year is the addition in October of a Tuberculosis Clinic. This department has shown a good attendance.

The Pediatric Department has shown the greatest growth. One hundred and fifty-seven new patients—representing 36 counties—(not including Columbus) were admitted through the office. This is 40% of the counties in the state:

County	No. Patients	County	No. Patients
Athens .....	5	Guernsey .....	2
Belmont .....	5	Hardin .....	1
Champaign .....	2	Harrison .....	1
Clark .....	2	Highland .....	1
Crawford .....	2	Hocking .....	4
Delaware .....	14	Huron .....	2
Fairfield .....	4	Jackson .....	3
Fayette .....	1	Jefferson .....	1
Franklin .....	32	Knox .....	1



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County	No. Patients	County	No. Patients
Lawrence .....	3	Morrow .....	1
Licking .....	17	Muskingum .....	2
Logan .....	2	Perry .....	1
Lucas .....	1	Pickaway .....	6
Madison .....	14	Richland .....	2
Marion .....	5	Ross .....	6
Meigs .....	1	Scioto .....	1
Miami .....	1	Tuscarawas .....	1
Montgomery .....	1	Union .....	9

## DEPARTMENTAL SUMMARY

Department	Periods Open	Periods Filled	Periods Vacant
Medicine .....	235	219	16
Surgery .....	235	176	59
G U .....	104	93	11
Ear-N. T. ....	153	135	18
Eye .....	153	146	7
Pediatrics .....	136	132	4
Orthopedics .....	70	69	1
Gynecology .....	75	67	8
Dermatology .....	70	69	1
Neurology .....	41	39	2
Pre-Natal .....	153	..	..
Posture .....	45	..	..
Tuberculosis .....	38	32	6
Venereal .....	146	..	..

For Comparison:

	Periods Open			Periods Filled			Periods Vacant		
	22-23	23-24	24-25	22-23	23-24	24-25	22-23	23-24	24-25
Medicine .....	219	217	235	188	203	219	31	14	16
Surgery .....	219	217	235	182	170	176	37	47	59
G. U. ....	102	255	104	99	247	93	5	8	11
E. N. T. ....	152	150	153	138	146	135	14	4	18
Eye .....	152	150	153	148	147	146	4	3	7
Pediatrics .....	135	135	136	134	133	132	1	2	4
Orthopedics .....	64	62	70	64	61	69	..	1	1
Gynecology .....	81	83	75	60	59	67	21	24	8
Nerve .....	50	50	41	46	47	39	4	3	2
Pre-Natal .....	102	91	153	98	..	..	4	..	..
Posture .....	..	64	45	..	58	45	..	6	..
Tuberculosis .....	..	..	38	..	..	32	..	..	8

Total Attendance:	New	Revisits	Total
Summer 1924 .....	1714	4299	6013
1st Quarter .....	873	3950	4823
2nd Quarter .....	955	3791	4746
3rd Quarter .....	829	3491	4320
June, 1925 .....	334	1285	1619
	4705	16,806	21,511

## THE OHIO STATE UNIVERSITY

## PATIENTS' ATTENDANCE SUMMARY

Period	Summer 1924	First Qtr.	Second Qtr.	Third Qtr.	June 1925	Total
Medicine .....	476	451	554	435	159	2075
Surgery .....	1901	754	338	275	93	3361
G. U. ....	17	137	70	40	1	265
E. N. T. ....	298	248	209	214	80	1049
Eye .....	181	216	250	254	63	964
Pediatrics .....	92	132	152	189	80	645
Dermatology ...	67	63	45	51	18	244
Neurology .....	79	60	46	28	11	224
Gynecology ....	58	55	70	59	18	260
Pre-Natal .....	174	255	235	187	60	911
Orthopedic ....	78	102	95	99	22	403
Posture .....	..	30	33	22	13	98
Tuberculosis ...	..	54	58	35	13	160
Venereal .....	2591	2266	2591	2432	972	10852
Totals .....	6012	4823	4746	4320	1610	21511

## For Comparison:

Department	1922-1923	1923-1924	1924-1925
Medicine .....	1,939	1,905	2,075
Surgery .....	1,362	1,502	3,361
G. U. ....	8,904	10,118	11,117
Eye .....	1,075	961	9,964
E. N. T. ....	1,362	1,250	1,049
Pediatrics .....	283	442	645
Skin .....	281	257	244
Nerve .....	196	183	224
Gynecology .....	260	259	260
Orthopedic .....	521	339	403
Pre-Natal .....	253	518	911
Posture .....	..	322	98
Tuberculosis .....	..	..	160
Totals .....	16,436	18,056	21,511

## Total Attendance:

Period	New	Revisits	Total
July 1, 1922-July 1, 1923.....	3,396	13,040	16,436
July 1, 1923-July 1, 1924.....	5,497	13,559	18,056
July 1, 1924-July 1, 1925.....	4,695	16,806	21,511

## Summary—First Visits (by sex):

Period	Male	Female	Boys	Girls	Total
Summer 1924 ....	410	380	461	483	1,734
1st Quarter .....	320	324	116	113	873
2nd Quarter ....	396	345	112	92	945
3rd Quarter .....	295	316	132	86	829
June, 1925.....	126	122	44	32	324
Total .....	1,547	1,487	865	806	4,705

## By Race (Night Venereal not included):

Period	Colored	White	Total
Summer 1924 .....	543	785	1,328
1st Quarter .....	216	436	652
2nd Quarter .....	252	461	713
3rd Quarter .....	225	396	621
June, 1925 .....	81	137	218
Total .....	1,311	2,215	3,526



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## Night G. U.

Period	New	Revisits	Total
Summer 1924.....	385	2,206	2,591
1st Quarter .....	211	2,055	2,266
2nd Quarter .....	242	2,349	2,591
3rd Quarter .....	208	2,224	2,432
Summer 1925 .....	106	866	972
Total .....	1,152	9,700	10,852
Comparison	New	Revisits	Total
July, 1922-July, 1923.....	824	7,488	8,312
July, 1923-July, 1924.....	1,820	7,959	9,779
July, 1924-July, 1925.....	1,152	9,700	10,852

## PRE-NATAL CLINIC

Period	New	Revisits	Total
Summer 1924 .....	51	123	174
1st Quarter .....	74	181	255
2nd Quarter .....	74	161	235
3rd Quarter .....	52	135	187
June, 1925 .....	19	41	60
Total .....	270	641	911
Comparison:			
July, 1922-July, 1923.....	101	152	253
July, 1923-July, 1924.....	168	350	518
July, 1924-July, 1925.....	270	641	911
New—Race	Black	White	Total
Summer, 1924 .....	34	17	51
1st Quarter .....	44	30	74
2nd Quarter .....	36	38	74
3rd Quarter .....	34	18	52
June, 1925 .....	11	8	19
Total .....	159	111	270
Comparison:			
1922-1923 .....	54	47	101
1923-1924 .....	88	80	169
1924-1925 .....	159	111	270

## POSTURE CLINIC

Period	New	Old	Total
Summer 1924 .....	..	..	..
1st Quarter .....	2	18	20
2nd Quarter .....	2	31	33
3rd Quarter .....	2	20	22
June, 1925 .....	2	11	13
Total .....	8	90	98
Comparison:			
1923-1924 .....	29	293	322
1924-1925 .....	8	90	98
Race:	Black	White	Total
Summer 1924 .....	..	..	..
1st Quarter .....	..	2	2
2nd Quarter .....	..	2	2
3rd Quarter .....	2	..	2
Summer 1925 .....	..	2	2
Total .....	2	6	8
Comparison:			
1923-1924 .....	7	22	29
1924-1925 .....	2	6	8

## THE MEDICAL SHOP

For several years a repair shop was maintained in the Department of Physiology. On transferring to the new medical building, Hamilton Hall, it seemed advisable to extend the activities of this repair shop so that all departments in the College of Medicine might be supplied repair and construction service. Accordingly in the Fall of 1924 the Medical Shop was established with a mechanic in charge responsible directly to the Dean of the Medical College. The shop was completed about November 1, 1924, and the period therefore covered in this report is from November 1, 1924, to June 30, 1925. The minimum charge for service by the Medical Shop against the various departments for the period referred to above was \$4,632.00. Stated in another way, if the Medical Shop had not been in operation at least this sum of money would of necessity have been spent by the University on the repair of apparatus and the building of new apparatus as in years past. In the repair and rebuilding of microscopes alone a very large item has been saved. The head mechanic of this shop is paid a salary of \$2,200.00 out of the general budget of the University. The other minor employees and the cost of material is carried in the medical pro rata fund. It can easily be seen, therefore, that a considerable saving to the University is effective by the operation of this institution.

## THE BRACE SHOP

As a supplementary part of the Medical Shop a brace shop for the making of orthopedic appliances of all kinds was started in January of 1925. This shop did not get into full production until about the first of March. The beginning of this work was made possible by a gift of \$1,500 for special equipment by a group of public spirited citizens in Columbus interested in crippled children's work. At the present time there is only one employee. Between the time the brace shop was started in the middle of January, 1925, and June 30, 1925, one hundred and five cases were handled even though scarcely any work was possible before the first of the month. The bills receivable for this period were \$1,661. It should be said in passing that there is practically no financial loss in the operation of the brace shop as far as bills are concerned, as all the braces are made for various associations and individuals who are actually engaged in orthopedic work and who have funds at their disposal for this purpose. A considerable amount of work is done for the Division of Charities, under the Director of Public Welfare.

Respectfully submitted,

E. F. MCCAMPBELL, *Dean College of Medicine.*



## REPORT OF THE DEAN OF THE COLLEGE OF PHARMACY

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and the Board of Trustees the annual report of the College of Pharmacy for the year ending June 30, 1925.

### ENROLLMENT

The enrollment for the College for the year shows an increase over that of previous years, the total being 347. Of this number 29 were women and 318 men. A most gratifying feature of the foregoing enrollment is to be found in the fact that of those admitted quite a number had from one to three years of college training. This, we feel, is an indication that the College is continuing to attract each year an increasing number of college-trained men and women. Further, that as the educational standards are raised, we find each year that Pharmacy is offering greater advantages to the graduates.

### PROGRESS

In reporting on the progress of the College, the most outstanding feature has been the discontinuance of all short courses. This fact, we believe, marks the highest development in pharmacy ever attempted in the state. It has long been recognized that Ohio is a leader in all educational requirements and qualifications which have as their object the bringing of all professions to a higher degree of efficiency.

This, as we have pointed out in previous reports, applies to pharmacy as well as to other professions. The new requirement of a minimum four-year curriculum in pharmacy is simply a further evidence of this desire to insure highly trained men in all professions. Naturally, the University is interested in all forms of education and the maintenance of high standards of training. In this instance we feel that a distinct service has been rendered to the future standards in pharmacy by placing the requirements on the same basis as the other professional schools. All forward looking movements must have a beginning, and in this instance the College of Pharmacy will have the distinction of being the only school having a minimum four-year curriculum. In view of this, it is to be expected that at the outset the enrollment, in the college, will fall below that of previous years. This, however, will be no serious handicap, since it was becoming increasingly difficult to properly care for the large number of students we had with our present facilities. After all, the most important feature is not the numbers enrolled, so much as the quality of the output, that counts. In view of this, it will be the aim of the College to not only maintain the present standing, but to greatly increase the prestige of the school. If these ideals can be brought about through the change, then the new requirements will be well worth while.

### FACILITIES

In previous reports we have emphasized the needs of the College for more room and modernized equipment for certain features of the work. In view of the new requirements and the prospective decrease in the number of students, it of course may be felt that these needs are not so urgent as they have been

in the past. However, notwithstanding this prospective decrease in numbers, we still believe that these needs are worthy of consideration. We base this consideration on the fact that the new requirements naturally will demand a higher degree of work and therefore simply serve to further emphasize their importance. Especially is this true if we are to maintain the standards of work in keeping with the new requirements.

The foregoing seems to be especially true in connection with the laboratory facilities for pharmacognosy. At present we are using, for the work, the laboratory formerly used for the advanced work in pharmaceutical assaying and drug analysis. A few years back, when our attendance increased so rapidly, we were compelled, as an emergency measure, to move the work in pharmacognosy to the present room. Inasmuch as this was thought to be a temporary arrangement, till more suitable quarters could be provided, no change was made in the desks. As is self evident, a high laboratory desk is not suited for microscopic work and the students are compelled to work under most unfavorable conditions. In consequence we have not been able to do either the quantity or quality of work we should be doing.

Again, the fact that half of our largest laboratory for pharmacy has been taken over for a telephone exchange has reduced our laboratory facilities. It is true that a part of another laboratory has been temporarily provided, and will no doubt supply the needed space, but such an arrangement makes it extremely difficult to properly supervise the work.

We are also badly in need of some suitable storage room for extra equipment and surplus stock. At present such material is stored wherever space is available with the result that it is extremely difficult to keep it in proper shape and where it is readily available.

It would seem, therefore, from the foregoing general statements that the desirability of suitable, adequate, and definite quarters for the College are so apparent that further comment is unnecessary. It is therefore hoped that some definite plan for the future will be kept in mind.

#### FOUR-QUARTER PLAN

The fact that the College of Pharmacy, in common with the other professional schools, does not offer work in the Summer Quarter does not entirely remove it from the general working of the plan. It has, therefore, been necessary to adjust all the work in general conformity to the plan. As a result we have had a gradually increasing number of students entering at the beginning of each Quarter. In order, therefore, that we might split the large classes into workable units and at the same time care for the increasing numbers of new students, it has been necessary to provide numerous repeat sections in various subjects. While this has very materially increased the teaching load of the instructors, it has, we feel, been of distinct advantage to the students. It has enabled us to work with smaller sections and at the same time provide work for those who, for various reasons, have been compelled to withdraw from the University for one or more Quarters.

#### DISPENSARY

After the most unfortunate and distressing affair which occurred, early in the year, in connection with the work of the Dispensary, we find it extremely difficult to discuss this phase of the work. Inasmuch as we have already made quite a lengthy and special report on the subject, it is probably unnecessary



to attempt any further comments here. This seems to be especially the case since, so far as we are aware, no new developments have occurred in the case since our report was made. We have exhausted every clue and suggestion that has been made and still find it impossible to offer any satisfactory explanation of how it may have happened. We have long hoped that something would occur that could clear up the mystery and thereby relieve the Dispensary of the responsibility that still exists.

#### INSTRUCTION

On account of the large number of students the past year the various instructors have been compelled to work under more or less difficult conditions. This has been due not only to the large classes, but also to a lack of available classrooms in our present quarters. As a result classes have been held in various buildings, on the campus, thereby preventing the use of demonstrating material as frequently as desirable. However, notwithstanding this handicap, the work has been done in a very satisfactory manner and has been of a very high order. We therefore wish at this time to express our very great appreciation of the loyal support and hearty cooperation we have had from all the instructors during the year. There were times when both students and instructors worked under great stress, but through it all there was a steadfastness of purpose and a zeal to do the work in hand that enabled them to carry through with credit.

#### ACTIVITIES

In this connection it is regretted that the teaching load and laboratory supervision of the instructors has been such as to preclude any very concerted effort in the study of special or research problems. We, therefore, express the hope that as soon as the new requirements are in operation that time will be found for the more serious consideration of some of the problems in hand.

As in the past, several of the instructors have kept in close touch with the practical conditions by doing relief work in various stores. This has served to keep them in touch with the practical side of their work and has been of great value to them in their teaching. In fact, such experience is of great value in refuting the very frequent statement that pharmacy teachers are not familiar with the actual practical problems of the store. In addition, it enables the instructors to emphasize and stress certain points from his own experience.

We are still serving as an advisory member of the Committee from the American Conference of Pharmaceutical Faculties, which is engaged in a survey of pharmacy from the functional viewpoint. This work, as explained in a previous report, is being carried on by the Commonwealth Foundation. In connection with the work we have studied and checked the work on several of the subjects. We have also continued our work as a member of the Revision Committee of the United States Pharmacopoeia. At this time the work is about completed and the book will probably be ready by the first of the year, if not sooner.

Respectfully submitted,

CLAIR A. DYE, *Dean.*

## REPORT OF THE DEAN OF THE GRADUATE SCHOOL

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report of the Graduate School for the year ending June 30, 1925.

### STATISTICAL INFORMATION CONCERNING THE ENROLLMENT FOR THE YEAR 1924-1925

Detailed information concerning the registration and number of degrees granted for the academic year 1924-1925 is given in the following table:

	Summer Quarter	Autumn Quarter	Winter Quarter	Spring Quarter	Total	Total Duplicates	Net Total
Men .....	438	329	353	358	1478	699	779
Women .....	160	135	176	134	605	226	379
	<hr/> 598	<hr/> 464	<hr/> 529	<hr/> 492	<hr/> 2083	<hr/> 925	<hr/> 1158

### DEGREES GRANTED

	Master's	Ph. D.'s
Men .....	134	35
Women .....	52	3
	<hr/> 186	<hr/> 38

### INCREASE IN REGISTRATION FOR THE PAST TWO YEARS

Gross registration for 1924-1925.....	2083	Net registration for 1924-1925.....	1158
Gross registration for 1922-1923.....	1503	Net registration for 1922-1923.....	768
	<hr/>		<hr/>
Gross increase in two years.....	580	Net increase in two years.....	390

Per cent net increase in two years = 50.78%

The distribution of the graduate students, according to the departments in which they majored, is given in the following table:

Department	Net Total	Department	Net Total
Accounting .....	3	History of Education.....	2
Agricultural Chemistry .....	14	Home Economics .....	10
Agricultural Education .....	6	Horticulture .....	3
Agricultural Engineering .....	1	Latin .....	13
Anatomy .....	0	Mathematics .....	23
Animal Husbandry .....	3	Mechanical Engineering .....	0
Architecture .....	1	Metallurgical Engineering .....	1
Bacteriology .....	4	Pathology .....	0
Botany .....	26	Philosophy .....	8
Business Organization .....	12	Physics .....	17
Ceramics .....	3	Physiological Chemistry .....	0
Chemistry .....	107	Physiology .....	1
Civil Engineering .....	0	Political Science .....	6
Dairying .....	5	Principles of Education.....	43
Economic and Social Geography.....	4	Psychology .....	69
Economics .....	20	Romance Languages .....	1
Electrical Engineering .....	1	French .....	20
English .....	99	Spanish .....	13
Farm Crops .....	6	Rural Economics .....	16
Fine Arts .....	5	School Administration .....	195
Geology .....	1	Sociology .....	21
German .....	2	Soils .....	7
History .....	15	Veterinary Medicine .....	3
American .....	22	Zoology and Entomology.....	51
European .....	21	Special students .....	254



## UNIVERSITIES AND COLLEGES REPRESENTED IN THE GRADUATE SCHOOL DURING 1924-1925

In the table below is listed those colleges that have had two or more graduates registered in the Graduate School during the year 1924-1925:

Name of College	No. of Graduates	Name of College	No. of Graduates
Allegheny College .....	4	Michigan Agricultural College.....	4
Amherst College .....	2	Mississippi A. & M. College.....	2
Antioch College .....	2	Mt. Holyoke .....	4
Baldwin-Wallace College .....	11	Mt. Union College.....	5
Berea College .....	3	Muskingum College .....	23
Bethany College (W. Va.).....	4	Northwestern College .....	5
Bluffton College .....	8	Oberlin College .....	8
Bowling Green Normal School.....	2	Ohio Northern University.....	31
Brigham Young University.....	2	Ohio State University.....	486
Capital University .....	6	Ohio University .....	63
Catholic University of America.....	2	Ohio Wesleyan University.....	55
Cedarville College .....	6	Otterbein College .....	32
Central Wesleyan College.....	2	Peking Gov't. College (China).....	3
Clemson Agricultural College.....	2	Pennsylvania State College.....	3
Colgate College .....	2	Purdue University .....	6
Colorado Agricultural College.....	2	Rio Grande College.....	2
Columbia University .....	4	Smith College .....	2
Connecticut Wesleyan University.....	2	Syracuse University .....	3
Cornell University .....	4	Toledo University .....	2
Dartmouth College .....	2	University of Akron .....	2
Defiance College .....	10	University of Chicago .....	5
Denison University .....	31	University of Cincinnati .....	4
DePauw University .....	4	University of Illinois .....	7
Dickinson .....	2	University of Michigan .....	4
Earlham College .....	3	University of Minnesota .....	2
Government Teachers' Col. (China)...	2	University of Mississippi.....	3
Harvard University .....	4	University of Missouri .....	5
Heidelberg University .....	19	University of Nebraska .....	2
Hillsdale College .....	2	University of Oklahoma .....	2
Hiram College .....	14	University of Tennessee .....	2
Hope College .....	3	University of Texas .....	2
Howard University .....	2	University of Washington .....	3
Indiana State Normal School.....	2	University of Wisconsin .....	7
Indiana University .....	3	Valparaiso University .....	3
Iowa State College.....	2	Vassar College .....	3
Kansas State Agricultural College.....	3	Western College for Women.....	5
Kenyon College .....	3	Western Reserve University.....	5
Louisiana State University.....	2	West Virginia University.....	5
Manchester College .....	7	West Virginia Wesleyan University...	2
Marietta College .....	10	Wilmington College .....	5
Marshall College .....	2	Wittenberg College .....	15
Miami University .....	17	College of Wooster.....	18

Eighty-nine other colleges are represented by one graduate each.

The following table shows at a glance which departments are attracting the largest number of graduate students, and which ones the smallest number.

	Registration for 1924-1925	Registration for 1921-1922
School Administration .....	195	86
Chemistry .....	107	111
English .....	99	66
Psychology .....	69	31
Zoology and Entomology.....	51	23
Principles of Education.....	43	0
Romance Languages .....	34	34

	Registration for 1924-1925	Registration for 1921-1922
Botany .....	26	18
Mathematics .....	23	21
American History .....	22	15
European History .....	21	11
Sociology .....	21	17
Economics .....	20	27
Physics .....	17	12
Rural Economics .....	16	4
History .....	15	0
Agricultural Chemistry .....	14	16
Latin .....	13	7
Business Organization .....	12	0
Home Economics .....	10	5

Those departments having 10 or less students, were:

Accounting	Fine Arts
Agricultural Education	Geology
Agricultural Engineering	German
Animal Husbandry	History of Education
Architecture	Horticulture
Bacteriology	Metallurgical Engineering
Ceramics	Philosophy
Dairying	Physiology
Economic and Social Geography	Political Science
Electrical Engineering	Soils
Farm Crops	Veterinary Medicine

For the year 1921-1922 the registration was 10 or less in all cases.

#### COMMENTS ON THE ABOVE STATISTICS

An analysis of the above statistics shows that out of a total registration of 1,158 students, during the academic year 1924-1925 (four quarters) 888 were graduates of Ohio institutions. Our Graduate School, therefore, is serving very largely the representatives and needs of our own state and this is as it should be. This movement to Ohio State University is only another sign, however, that careful planning for the future is necessary.

It is worthy of notice, also, that the foreign students, especially the Chinese, are coming in larger numbers. Moreover, there is evidence that these students are of a better grade than in former years.

As has been reported in previous years, the Summer Quarter is most largely attended. While a high percentage of the registrants is made up of teachers in the Ohio public school system, taking educational courses, there is reason for believing that we would have many more students enrolled in other departments if the offerings of courses during the Summer Quarter were more adequate. Comparative statistics show that our University stands up among the best in the number of graduate students enrolled and advanced degrees given.

#### CHARACTER OF THE GRADUATE STUDENT BODY

It is of interest to note some of the groups of students represented in the Graduate School. The following constitute over one-half of the membership of the School:

University Fellows .....	7
University Scholars .....	21
Non-University Fellows .....	11



Members of the Instructional Force of the University (part-time assistants).....	141
Members of the Instructional Force of the University (above the rank of assistant) ..	70
Columbus teachers .....	93
Teachers outside of Columbus (including principals and superintendents).....	221
Instructors in Ohio Colleges.....	31

#### FELLOWSHIPS FINANCED BY EXTRA-UNIVERSITY AGENCIES FOR THE YEAR 1924-1925

A number of endowed Fellowships have been maintained by extra-University agencies for the past few years. Below is given the list of such fellowships maintained during the past year, together with the name of the Fellow and the department in which he majored:

THE E. I. DUPONT DE NEMOURS & COMPANY FELLOWSHIP
Aubrey Otterson Bradley, Chemistry
THE GRASSELLI CHEMICAL COMPANY FELLOWSHIP
Henry Francis Palmer, Jr., Chemistry
THE ROBINSON FELLOWSHIP
Homer Morgan Faust, Mechanical Engineering
BUREAU OF MINES FELLOWSHIPS
Henry G. Fisk, Ceramics
Alfred Ernest MacGee, Ceramics
Leonard F. Sheerar, Ceramics
NATIONAL LIME ASSOCIATION FELLOWSHIP
George William Ruhl, Chemical Engineering
NATIONAL LIMESTONE ASSOCIATION FELLOWSHIP
Herbert F. Kriege, Soils
Y. M. C. A. FELLOWSHIPS
Prather James Hauser, Sociology
Rex Marion Johnson, Sociology
William Linville Loudon, Sociology

#### LECTURERS

Among the lectures given at the University during the past year, which were of essential interest to graduate students, may be mentioned the following:

Dr. Leo H. Baekeland, President of the American Chemical Society; subject, "Misdirected Efforts."

Dr. Carl Benedicts, Director of the Metallographic Institute of Stockholm, Sweden; subject, "Space and Time."

Dr. Marston Taylor Bogert, Professor of Organic Chemistry at Columbia University and Chairman of the National Research Council Committee on Medicinal Substances; subject, "Science and Art in the Perfume Industry."

Dr. W. T. Bovi, Assistant Professor and Organizer of the Department of Biophysics at Harvard University; subject, "The Effect of Sunlight on Babies."

Dr. Alexander J. Carlyle, Professor of History and Political Science at University College, Oxford; subject, "Present Social and Political Conditions in England."

Professor Frederico de Onis of Columbia University and the University of Salamanca; two lectures; subjects, "City and University of Salamanca." Second lecture on the contemporary Spanish dramatist who recently received the Noble Prize, Benavente.

Professor Herbert Freundlich, Professor at the Kaiser Wilhelm Institut für Physikalische Chemie, at Dahlem, Germany; subject, "State of Aggregation and Form of Colloidal Particles."

Professor Andre Morize, Professor of French Literature at Harvard University; two lectures; subjects, "Introduction to Graduate Work in Literature," and "Anatole France."

Dr. H. C. Sherman, Department of Chemistry of Columbia University; subject, "Vitamins in Life and Health."

Dean Henry Smith of the University of Indiana; two lectures; subjects, "Some Fundamental Factors in Successful School Work," and "Rural School Demonstration in Johnson and La Grange Counties, Indiana."

Frank Tannenbaum, employed by the American Prison Association; subject, "The Conditions and Conduct of Our Prisons."

Professor Frank Thilly of Cornell University; subject, "Individualism."

George Brinton Thomas, Director of Technical Training of the Western Electric Company; subject, "Investigation of Speech and Hearing."

J. G. Vail, Chemical Director of the Philadelphia Quartz Company and Vice President of the American Doucil Company; subject, "Silicate Solutions and Some Silicious Gels."

Dr. Arnold Wolfers, Swiss Scholar; subject, "France and Germany at the End of the Ruhr Conflict."

#### LIBRARY APPROPRIATION

It is a pleasure to state that the money appropriated to the Graduate Council by the Library Council for distribution during the past biennium, while wholly inadequate, helped decidedly to satisfy a very great need. The money was distributed to the various departments, after many prolonged consultations with members and heads of these departments.

#### PRODUCTIVE SCHOLARSHIP

I can, with advantage, reiterate Dean McPherson's statement of two years ago, to the effect that there is a very evident increase in scholarly work on the Campus. The number of members of the faculty who are doing research and making important publications, is rapidly increasing and this is as it should be. Along with this there is increasing attention to excellence of teaching. The Faculty more and more recognizes that good classroom instruction is the main function of the university teacher.

#### THE GRADUATE COUNCIL

I am happy to say that the members of the Graduate Council have been most faithful and intelligent in their services which, of course, take an appreciable amount of time of very busy men, and that they form a body of genuine significance for the program of the University. It is hoped that in the future arrangements may be made whereby the resources, intellectual and moral, which they possess, may be more fully employed. In this group there is light and leading, as to University policy, which have hardly been recognized as yet.

Many meetings have been held during the past year and a record of what has been accomplished is on file in the Office of the Graduate School. I shall refer to only one decision.

A significant change in the conduct of examinations for the degree of Doctor of Philosophy has been made. The Council has felt quite strongly that the higher degrees should be safeguarded in every way possible, and that only unusually promising candidates should be allowed to come up for these degrees. Accordingly, it was voted to have a representative of the Council attend the *preliminary* or admissional examination for the Doctor's degree, as well as the final examination, to help make sure that no unworthy candidate would be admitted. In other words, it has been agreed that the place to eliminate unpromising candidates is in the preliminary, and not in the final, examinations, after much expense is incurred by the University and the candidate. This will multiply the duties of the members of the Council but will elevate the standard of graduate students, wherein our chief glory is to be found.

This report would not be complete without a word concerning Miss Alice Moran, who has the rank and pay of a stenographer, but in reality has done



the work, in addition, of a college secretary, with the hearty approval and highest esteem of all who have had dealings with the office. This comment leads, however, to an extremely important problem which cannot be ignored—the Graduate School Office.

#### THE GRADUATE SCHOOL OFFICE

It is now clear to all who have had any intimate contact with the office work of the Graduate School, that greatly increased facilities are absolutely necessary. The office was set up to meet an enrollment of 300 students. The registration this past year was over 2,000 gross. Yet there has been no growth in the office force. Every other college has received added appropriations and equipment to meet increased enrollment and has increased its office staff. The Graduate School—certainly not the least important of the colleges, but rather the school from which the University derives a large part of its reputation through and beyond the state—remains as it was five years ago. The utter inadequacy of the force was humiliatingly illustrated this year (June, 1925) when over 700 students enrolled for the Summer Quarter. A cursory examination by the authorities will show that the situation is impossible and cannot remain unconsidered and unimproved without irreparable damage to the standing of the School.

#### CONCLUSION

In conclusion, may I express to you, Mr. President, to the members of the Graduate Council, and to the Board of Trustees, the hearty thanks of Dean McPherson, who is absent on a much-needed vacation, and of myself, for the generous cooperation shown in all proposals pertaining to the advancement of graduate work, a cooperation that is so vital a factor in the development of a great institution of learning.

Respectfully submitted,

F. E. LUMLEY, *Acting Dean of the Graduate School.*

## ANNUAL REPORT OF THE DEAN OF WOMEN

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report of the Dean of Women for the year ending June 30, 1925.

In so far as the Dean of Women and her assistants strive to aid in maintaining the general well-being and high scholastic standards and attainments among women students, together with the off-campus impression and reputation of Ohio State University women as a group, her office and work is of importance to the University; of importance because the finest type of young woman will not attend a university either of her own volition or by parental plan unless its women are known to be living under refined and wholesome conditions, and unless the desirable type of young woman predominates.

There is an often unconscious recognition among outsiders that the education of younger women depends in no small part upon their study of the slightly older woman who is apparently recognized by the community as successful. Hence, the reputation of a co-educational university is subtly dependent upon the standards of its upper class women for the type of freshmen girls who will be attracted to it. The work of the Dean's office should further, then, a fine type of womanhood and scholarship among women.

In sketching this work each year on the campus it is not easy to say whether changes and improvements should be credited to the period in which they have actually taken place, or to the preparatory period without which such advances could not have been made. Furthermore, those things not yet accomplished which lie just out of reach in the future, seem of such potential value, and occupy so much of one's thoughts and interests, that the temptation is to urge the need of these instead of recounting those things already done.

The work of this office falls into three classes: that done for the social and physical wellbeing of the individual student; that pertaining to scholarship proper, together with efforts made to increase the recognition of the value of scholarship even for the young woman who has no intention of graduating; and third, the most difficult, the effort made to maintain the high tone which should be imparted to every student organization acting on the campus, so that it shall be a means for the training of good citizens, for the building of habits of civic and community interest in every woman, and for the development of latent executive ability in the finer types of college women.

### HOUSING EQUIPMENT

Of the 2,625 women students reported by the Registrar's office as enrolled in 1925, it has been estimated that between 1,000 and 1,200 are from outside of Columbus. The housing of these young women is under the direct supervision of Miss Foster, Assistant Dean of Women, and Mrs. E. E. Prout, Superintendent of University Dormitories. The three dormitories in use this past year—Oxley, Mack, and South Hall—reported approximately 220 young women, namely, those who were fortunate enough to send in early applications for rooms. University dormitories are filled early in the spring, and the many young people who wait until summer to make their college plans must content



themselves with residence elsewhere. This means that the Church Halls, St. Hilda's and Presbyterian, housed 64 girls; the Cooperative House, 15; approved rooming houses reserved for women students only, housed 403; approximately 75 lived in private families, where they worked for their room and board; the 24 sororities accounted for 250; special permission was given to various young women to live under unusual conditions; and it is estimated that those living with relatives and those commuting numbered 200 or more, this total being 1,227 out-of-town women students.

#### THE COOPERATIVE HOUSE

A special word should be said with respect to the University Cooperative House, Baker Hall, which was an even greater success than had been hoped. The 15 young women who carried on all the work of the house, including the cooking, found that it did not prevent adequate study and participation in campus activities. The estimated expense of \$70 per person for each quarter proved adequate, and the spirit of fine cooperation which was maintained was most gratifying. Requests which came in this spring for accommodations would have justified the establishment of another Cooperative House, if a large furnished house could have been found at reasonable rent. The establishing and equipping of a few such houses is an enterprise in which college women of the state might well interest themselves, as have women connected with one or two other universities. Such living facilities would enable picked young women of slender finances to attend the University at comparatively low cost.

#### LIGHT HOUSEKEEPING

These cooperative houses should eventually take the place almost entirely of the "light housekeeping" rooms which are considered of doubtful desirability. Two types of students live in these rooms where they supply their own meals: in one case they are girls who receive practically all their supplies from the home farm and are able to live at very low cost, buying perhaps only milk and occasional extras in Columbus. They are, thus, enabled to live at very low cost, probably without danger to their own health from underfeeding. Special attention is given to the inspection of light housekeeping rooms, which are approved by Miss Foster only when they are equipped with adequate facilities for care and cooking of food, and disposition of left-overs. The second type of light housekeeping student is trying to save money on her food, and is often living on the cheapest possible varieties, not even taking time from her work to prepare hot meals. This "paper bag" method seems too great a menace to health, and an attempt has been made to prevent it by forbidding students to eat meals in their rooms except where the householder has agreed to assume some responsibility of oversight. A rather rigid enforcement of this ruling has been considered advisable.

#### SELF HELP

Closely akin to the girl who is trying to make her almost insufficient funds carry her through the University is the girl who comes with from \$150 to \$250 and wishes to work for her board and room in a private family. These young women must be especially supervised in order that health, class work, and the work in the home shall constantly remain at a high level. Personal

interviews with both the girls and the women with whom they live have enabled Miss Foster to put this type of work on a much more satisfactory plan. Specific instances might be noted of girls most unhappy in their first homes who were transferred to homes into which they fitted. In some instances the University program, involving a number of laboratory courses, had to be altered. Under adequate supervision this is the most satisfactory way for a young woman to earn her expenses while in college.

#### COMMUTING

The last group to be noted is that of the girls who commute, coming in by interurban or by automobile ten to twenty miles each day. Few young women can carry a full program at the University successfully and make this kind of a daily trip, probably because of the fact that most of them are also carrying responsibilities in the housekeeping at home thereby leaving themselves inadequate time and strength for study.

#### SORORITY HOUSING

The sorority houses present a double problem of social and financial demands. In order to offset the tendency of these groups to undertake houses beyond their means each sorority was asked last September to present a budget showing probable expenses as compared with income. This spring the sororities again reported, discussing actual expenses and plans for next year. In some cases finances have been most creditably managed, in others, social demands and lack of foresight have left the groups with deficits which will be a burden for the oncoming year. In one case there was a most unfortunate verbal contract entered into, involving the gradual purchase of a house. By the spring of the year neither party was certain of the terms of the contract and it was therefore dissolved after an unnecessary misunderstanding. Hereafter sorority groups are being required to submit to this office proof of a business-like arrangement before their proposed house is approved. It is also being suggested that each group ask the Housing Dean to inspect a house which is being returned to its owner, inasmuch as several sororities have had unpleasant experiences with respect to damages claimed on property after its return to the owner.

The social competition between sorority groups is such as to make it advisable to require that the house mother be a woman of poise and recognized authority in the house. This year, for the first time, the house mother has been designated as the University's representative in the house, responsible to this office for all that happens. Part of her duty is to emphasize habits of life in the house which shall be conducive to reasonable health, scholarship, and good name in the community. A constant effort is made to secure women of fine character and social training, whose influence in the house will be an asset and who are willing to accept the very small salaries offered. One university has thought it worth while to subsidize these positions to the extent of \$10 a month. These women are, without doubt, an integral part of a university staff, carrying into individual units the standards of the university. The tone of a house group has been proved to depend upon the personality of the house mother. This cannot be a matter of indifference to a State University which recognizes the educational importance of training in standards of living as well as in standards of thinking, among college women.



## SCHOLARSHIP

A special effort is made to urge the importance of scholarship among University women, even for those whose interests are not primarily scholastic. In order to emphasize this none of the important campus offices may be held by young women whose grades are below an average of C. Sorority initiation and permission to house freshmen depend upon scholarship. All sororities on the campus now require a C average of candidates for initiation. Browning Dramatic Society makes a point of the grades required from all would-be participants in their plays. In the interviews by the Dean of Women with all students whose grades have been unsatisfactory stress has been laid upon the fact that the causes of almost all poor grades may be discovered and removed, and that this should be done promptly.

Students of poor health have been urged, and in certain cases, required, to carry limited schedules and to adopt health schedules calculated to offset their difficulties. The Psychology department cooperated in the attempt to trace causes of poor scholarship in the maladjusted student by permitting a member of the Psychology staff, Miss Emily Leatherman, to devote her time to exceedingly careful and detailed follow up work in the cases of young women referred to her. To facilitate these studies Miss Leatherman was given access to private files in this office which showed interviews with all young women who had failed courses for the past three years. These, although often single interviews, were of value to her as she dealt with the special cases under consideration. Miss Leatherman showed remarkable tact and good judgment, in all instances making friends with the students involved. The distinctly constructive nature of this follow-up work has proved of striking value in several cases, even in this short time. It is to be hoped that the work may be continued, and emphasized from the angle of mental hygiene.

Many interviews with the unsuccessful students show among other causes of failures a lack of understanding of proper methods of college study either by the young woman herself, or on the part of her parents. Closely connected with this difficulty is the lack of real interest on the part of the young woman in her college work or in the particular studies pursued as representative of her chief college occupation. Especial effort has been made to interest the University Mothers' Club in this type of failing student.

## HONOR ROLL

There has been a significant movement on the part of a group of Sophomore girls this year to urge the establishment of a Freshman honor roll made up of those young women who have completed the freshman year with high grades. The suggestion made is that this roll include students receiving not more than one grade of C, all other grades to be A and B. This request is presented on the ground that scholarship is not emphasized as bringing prominence in the first years of college work and that a young woman who wishes to be known must emphasize "student activities" rather than scholarship. That "activities" may be combined with acceptable scholarship seems to have been proved by the Mortar Board of this year when four out of the seven members enrolled in the Arts College graduated with academic honors, but in the freshman year they are often disastrous.

## ORGANIZATIONS

Student organizations on the campus continue to grow and multiply. This need not be harmful if they are properly supervised and if duplications in office holders and managers are avoided by the enforcement of the Student Government Point System. The willingness on the part of the young women to abide by this limitation is probably increased by the several prominent breakdowns occurring among those who attempted more than the specified amount of extra-curricular work.

Supervision and coordination of activities and organizations was rendered particularly difficult this year by the absence of any functioning student-faculty adjudicating or advisory body. Owing to the unstable condition of Faculty rules the committee on student activities did not meet during the current year. Hence incoming student officers received no instructions and pleaded ignorance of former rules as excuse for departure from customary procedure, or else sought their information hither and yon.

Mention is to be made here of one of the most helpful and stabilizing influences now at work among student organizations. Miss Auch, as Student Auditor, not only straightens out finances, consciously or unconsciously tangled, but serves as financial adviser to student treasurers, and has for the past two years been practically sole counselor for student dances. Under the present system Miss Auch approves chaperons, prices, and locations for dances, all of which must be registered in her office. She has done this exceedingly well, but her figures will doubtless show that the demands in this work, as well as in her auditing work, have grown rapidly, and she therefore needs assistance. It is very much to be hoped that there may be official recognition of the necessity for student faculty opinion and authority brought into evidence with respect to student social functions in general. This can readily be done in view of present student sentiment. Dances held until 1 and 2 o'clock, and taking place at 20 to 30 miles from the campus offer one of the problems which many students would like to see met.

Student social life for women centers now unquestionably around Pomerene Hall. The demands for the use of the hall by student organizations this year offered adequate proof that the campus is ready for the other half of the building. In order to present first-hand information from various angles reports have been submitted in addition to my report, from the Hostess of Pomerene Hall, the President of Women's Student Council, and the President of Y. W. C. A. The League of Women Voters has also been asked to present a summary of work done. Organizations such as the Woman's Athletic Association, Mortar Board, and Chimes, are likewise working for the welfare of women students as a whole.

The general purpose and aim of these organizations is to increase the spirit of friendship on the campus beyond each girl's narrow circle of naturally congenial friends; to give opportunities and training for development in leadership to the finer type of young women, and to attempt to reach personally those numbers of young women who tend to pass through a great university with no broadening social contact and small chances for personal development. The work of these groups is strikingly disinterested, the chief task of their supervisor being to attempt to maintain a correct balance between the University class work, organization demands, personal social habits, and reasonable health on the part of these overwhelmingly busy and energetic student leaders.



## LOANS AND SCHOLARSHIPS

The number of high school girls attempting to come to the University without the necessary financial backing seems to increase year by year. Letters are received in great numbers by this office from high school graduates who ask for scholarships or part time work on the ground of desire for university education but of insufficient finances. They are advised not to come unless they have \$150 to \$200 and are willing to sacrifice social life for work.

There are no scholarship funds at the disposal of this office and loans are not granted to freshmen except in emergency cases, such as illness, which temporarily unfits a girl who is earning her way, to carry on this work. This year loans were called for from the following organizations offering student loans each year: American Association of University Women, Women's Federated Clubs of Ohio, Columbus Alumnae Club, Columbus Women's Club, City Panhellenic Council, Women's Student Government Association. These loans totaled approximately \$2,000. All but one of the loans went to undergraduate students. This one loan of \$300 was granted to a graduate student to meet the final expenses of her Ph. D. work. A small loan fund is also maintained in this office from which amounts of \$5 to \$25 are loaned, to be repaid within short periods. The need for such a source of immediate relief comes from the fact that students will sometimes live with practically no financial margin. One young woman this year confessed to 75 cents as her total supply of money at that time. Another young woman came in when she started to use her last \$5. The Y. W. C. A. aids a number of students in finding sufficient work to pay a considerable portion of their university expenses. Many girls, of course, are working who have not secured their positions through this office.

## CONVENTIONS

Miss Foster and I attended the meeting of the National Association of Deans of Women held in Cincinnati, February 26, 27, 28. Here some five hundred women representing advisory work in the high schools, colleges, normal schools and universities, came together for discussion of common problems.

Great stress is now being laid on high school social supervision and training as it is conceded that a large per cent of our social and community problems are acutely reflected and echoed among the boys and girls of high school age. The development of what is known as Mental Hygiene work is an effort to train a generation which will be more conscious of the underlying factors which make for personal and civic welfare.

Some of the most outstanding speakers of the convention program were Doctor Coleman Griffith, University of Illinois, speaking on "Mental Hygiene for College Students;" Doctor George E. Vincent, Director Rockefeller Foundation, New York City, "The College and Public Health;" President Frank Aydelotte, Swarthmore College, "Promoting Scholarship Through the Honor Student;" Ada L. Comstock, President of Radcliffe College, "Changes in Curricula in Colleges for Women;" Doctor Alexander C. Purdy, Professor of Practical Theology, Hartford Theological Seminary, "Character Building." This last was a very unusually scientific and yet practical analysis of the influences which go into the making of character.

The American Association of University Women, representing the college woman after graduation as a potential influence in her community for educational and civic matters, is of almost as great interest to a dean of women as

the National Association of Deans of Women. It was with regret, therefore, that I abandoned my plans to attend this convention held at Indianapolis and Bloomington in the spring.

These two conventions are important in the year's work in that they give opportunity for exchange of ideas with women of prominence in educational and administrative work. Such contacts make possible reliable comparisons of conditions and methods existing in the various educational institutions of the United States, and are of value because of the similarity in fundamental issues and larger problems confronting women who are working with young people.

The meeting of Ohio Deans of Women took place in Columbus at the time of the State Educational Association meeting. Dean Irma Voigt was president and about fifty women attended the Saturday morning conferences. Doctor Lichliter was the only speaker from outside the group. This meeting is in many ways an echo of the National Association gathering, but offers much greater opportunity for the presentation of detail personal problems. It is probably of greater value to those deans who are just entering the field or who were unable to attend the national convention.

#### IMMEDIATE NEEDS

A constant effort is made to teach student organizations how to meet the needs of their fellow students, but there must always be a certain amount of university maintained machinery. The greatest lack in this office at present is in personnel to deal with the incoming freshman and transferred student. Approximately a thousand such students will come to the University this fall. Very much greater efficiency could be brought about in their university work if individual or small group interviews could be held with these new students within the first few weeks of their residence here. Several universities now maintain to this end an adviser to new girls, who is one of the assistants in the office of the Dean of Women. She makes a specialty of the high school freshman adjustment problems and is also more available for lengthy discussions of personal problems which are of real importance to the young woman away from home for the first time, but which are impossible with the Dean herself, whose time at the beginning of the year must be devoted to the larger issues. There is very great need at present for this work in the student body.

Such an assistant could be found at a moderate salary among younger women wishing to enter this administrative field. It is of great importance that the person in such a position represent high scholastic attainments. However, the duties would involve no discipline, and rarely more than two years of follow-up work, the changes resulting from permitting this position to be used as a training ground rather than as a higher salaried permanent position would not be a real disadvantage to the University.

A second handicap, though of minor importance, is the lack in this office of complete records of incoming students. Registration with the Dean of Women has been semi-voluntary, and consequently never complete. Experience has shown that it is often the student who has failed to register with this office who is most in need of supervision. Therefore, a rather drastic enforcement of the registration requirement will be attempted this coming year.

It has been the policy of this office, in dealing with customs and traditions, to do away, in so far as possible, with the unwritten and unspecified requirement.



One, however, which remains and which must be dealt with in some fashion is the Freshman Ethics course which is popularly known as "Dean's Lectures." These carry no credit, occur once a week for two quarters, and have been so duplicated by a one-hour compulsory lecture course given in various colleges that not a few freshmen were sufficiently bewildered or independent this past year to absent themselves wholly from the general group meetings. This Tuesday hour is of importance chiefly as a mass meeting in which *Esprit de Corps* can be developed and in which some of the ethical and adjustment problems peculiar to a freshman girl may be presented for mass consideration. The wholly uncertain basis of these meetings should be changed. They should be either lectures of compulsory attendance or voluntary convocations for freshmen women. Until such time as a personal advisory system can be instituted these mass lectures seem to have a place and a value. They are a form of mental hygiene and fundamental ethics. If the authorities saw fit to grant one-half unit credit per quarter for the two quarters, sufficient preparation or written work could readily be demanded of the students to justify these credits from an academic standpoint.

Nothing further need be said here with regard to general social conditions other than to urge that another year be not allowed to pass by without a recognized and functioning Student Activities Committee or its equivalent.

This report is submitted, Mr. President, with regret that it should be my final one to you, and with feelings of very great appreciation of all that your personal interest and support have meant.

Respectfully,

ELISABETH CONRAD, *Dean of Women.*

## REPORT OF THE HOSTESS OF POMERENE HALL

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report of the Hostess of Pomerene Hall for the year ending June 30, 1925.

### GENERAL POLICY

This work was undertaken without definite policy as to its organization. A general survey of the situation while learning the surface details seemed best.

The three most important problems which presented themselves were:

A change in the general atmosphere of the building.

A study of the subject of maintenance.

A correlation or closer inter-relation of the various units in the building through *services rendered*.

The subject of the maintenance of the building itself, and of its furnishings is one that should be given an immense amount of time, thought, and study.

A closer and more cordial relationship between this unit and others in the building should be established through services rendered.

The same kind of relationship should be established with departments outside this building. This has been made easier than formerly because the Faculty Club is available. They have been more compliant with rules of Pomerene Hall, since those imposed by the Faculty Club are more restrictive.

### GENERAL POLICY AND SUGGESTIONS FOR ITS DEVELOPMENT

A social and happy atmosphere has developed in the building beyond the most sanguine expectations. This has been well received, both on and off campus. It is now time to develop a *group* of people who will interest themselves in Pomerene Hall; create its atmosphere; shape its policies, both financial and otherwise; and put it in its proper relation to the University as a whole.

Since this department is largely maintained by student funds, it should be sustained by students and its policies directed by them as far as practical.

The most "reasonable service" of the Hostess to this department is developing the Pomerene Board of Control; directing and educating the students in this special field.

The Hostess plans for the ensuing year to take up the study of the maintenance of the building and its furnishings; also, to study the future needs of the new building. As I understand conditions, the new building will have to be furnished by alumnae and friends of the University, and therefore, some attention and preparation should be given to this matter.

The students should also be directed and educated in the wisest and most effective disbursement of the Pomerene funds. They should be taught to *spend* money wisely—both their own and that of the public.

It has been reported that the atmosphere of Pomerene Hall is happy, and its place in the life of the student body is on a high social plane. This is as it



should be. It has also been reported that this has been due to the efforts of the Hostess. However, it is difficult to sustain such an atmosphere without the cooperation of the people most concerned. The Hostess feels that the successful way to accomplish this end is to give the students a definite place in the scheme of things.

The leaders are necessarily very busy people, and a division of labor is an advantage.

It has been difficult in the past to secure a quorum because of the class work and other activities of the student members.

By having a larger student group, it would be easier to establish continuity in the Board. Such a group could be more representative of campus life, and could more effectively shape the policies of Pomerene Hall.

I am, therefore, asking:

(1) For a slight increase in the student group of the Pomerene Board of Control—*six* students instead of *four*.

The Hostess plans to develop a board that will really function. To do this the members of the Board must be used by her, individually and collectively.

The above plan has been developed elsewhere, and has proved effective. At Ida Noyes Hall, Chicago University, a board of twenty is rendering efficient service.

(2) An addition of an alumna member of the outgoing class.

The Hostess feels that such a person would have both the student and alumnae points of view. She would be directly in touch with campus problems, and the Hostess believes she would be of great service. This would give two alumnae members on the Board. During the past year it has been difficult to have an alumna member present at the meetings.

(3) A full-time assistant to relieve the Hostess of too long hours, surface details, and the smaller problems of organization.

#### CONCLUSION

I wish to thank the other units in this building for the many services they have rendered me personally, and also my department. Other departments on the campus have shown great cooperation and rendered many services. I wish to note especially the Department of Home Economics; also the invaluable services of Mr. Kuntz, Mr. Steeb, Mrs. Prout, Miss Cockins, and Miss Auch.

Sincerely,

SOPHIE H. BARKER, *Hostess of Pomerene Hall.*

## ANNUAL REPORT OF THE DIRECTOR OF STUDENT- HEALTH SERVICE

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to present to the President and Board of Trustees the annual report of the Department of Student Health for the year ending June 30, 1925.

This, the tenth annual report of our Health Service, closes the first decade of its existence, and of our efforts to establish a progressive and thoroughly up-to-date Health Department for our people. At the close of each previous year we have been warranted in reporting progress toward the attainment of our objective; and this year we can emphasize the fact of a steady, substantial, and expanding interest in "HEALTH EDUCATION;" "PREVENTION OF SICKNESS;" and "HEALTH CARE," together with an ever-increasing confidence in the integrity of our department, our methods, and our work.

It is especially worthy of note that our results of the past and present have earned for us, both within the University and throughout the United States, the credit of originating and conducting one of the most efficient and economical methods of HEALTH EDUCATION employed in the colleges of today, as is shown by the numerous unsolicited letters of commendation and endorsement from authorities in the fields of Education, Health, and Applied Philanthropy, received by us at frequent intervals during the existence of this department, many of them being of very recent date.

### INCIDENCE OF SICKNESS, 1924-1925

During the year just closed, 5,885 different individuals made 19,161 voluntary visits to this department for advice and treatment; and the total recorded loss of school-time on account of preventable sickness amounted to only 9,351 hours, an average of one and six-tenths hours (1.6) per sick student, for the entire school year. It is, of course, regrettable that we are not able to report *exactly all of the sickness* which occurred within our student group, (for we have no rule compelling students to report to this department when ill) but, through the cooperation of the various colleges, departments, and other agencies both on and off the campus, we have good reason to believe that fully 90% of all serious illness and accidents occurring to the campus group, are reported to us, either directly or otherwise. Certain it is, however, no dangerous or communicable disease reportable to our City or State Departments of Health occurs among our University members without the information being immediately communicated to this department, and proper steps taken at once to protect the University community.

### HIGH LIGHTS OF THE YEAR

There are three prominent features of our health work for the year which, I believe, should be given special mention and appreciation.

First. The continuance and increase of interest in HEALTH EDUCATION as conducted in our Health Service. This is definitely reflected in that part of our reports which show the visits of those who seek "advice only" in the absence of need of medical care. The substantial growth of this practice



on the part of students is shown by reference to the records of the last five years, as follows:

Academic year of.....	1920-1921	1921-1922	1922-1923	1923-1924	1924-1925
Calls—"advice only"	516	957	1169	1391	1671

It should be borne in mind that all visits to our department are wholly voluntary, and that visits for "advice only" are the outcome of sincere desire on the part of the individual to learn how to keep well.

Second. The growing interest in our work during the last five years, together with the improved health of our students, as indicated by the decrease in the loss of school hours through sickness; the decrease being almost in direct ratio to the increase in the number of visits for advice and care. As the students become aware of their privilege, and are educated to accept it, we hope to see the number of "school hours lost" reduced to a negligible figure. A glance at the following table will be enlightening:

Academic year of .....	1920-1921	1921-1922	1922-1923	1923-1924	1924-1925
Visits to Department	10,923	13,110	15,258	16,117	19,142
School hours lost	16,268	13,778	18,609	9,009	9,351

N.B. Nearly 7,000 hours lost that year through epidemic of influenza, which at present is not regarded as a preventable disease.

Third. The extraordinary exhibition of confidence in our work, and uninterrupted interest in "health care" on the part of students, faculty, staff, and employees of the University, following the mysterious and tragic events of the closing days of January and the week following, are well worth noting here. While this department was in no way involved in the sad affair, the mysterious train of happenings might then have justified a different attitude on the part of those whom we serve. That it was *not* exhibited is extremely gratifying. On the contrary, our records reproduced below show a *greater* number of visits by a *greater* number of individuals during February of this year, than in any previous month of February; and particularly we note a greater number of calls for "advice only" than in any month of any year since the department was organized.

	Feb. 1921	Feb. 1922	Feb. 1923	Feb. 1924	Feb. 1925
Office visits, total.....	1087	1268	2337	2072	2440
Different individuals .....	680	725	1325	1130	1427
Visits, "advice only".....	63	116	166	145	245

#### COOPERATION

The phase of our Health Service organization and management in which we take particular pleasure is that which relates to the hearty, harmonious, and efficient cooperation with us, of the various colleges, departments, and other agencies both on and off the campus. This cooperation is the fruit of ten years of assiduous labor in this particular field of endeavor. By it we are enabled to conduct our work with great efficiency and economy; avoiding duplication of equipment and effort, and save an untold amount of expense to our students, and to the State of Ohio. To complete our cooperative plan (now that the Medical College is located upon the campus, and the University Hospital completed) we sincerely hope for the early establishment of the same harmonious and cordial relationship that we now have with the rest of the university family.

Among those contributing to our success in the past, and to whom we acknowledge indebtedness, are:

- (1) University Hospital;
- (2) Dental College;
- (3) College of Pharmacy;

(4) School of Optics; (5) Department of Physical Education; (6) Department of Military Science; (7) Department of Psychology; (8) Dean of Women; (9) University Y. M. C. A.; (10) City Department of Health; (11) State Department of Health; (12) Physicians of the University District; (13) Members of the University Faculty; (14) Department of Operation and Maintenance; (15) Shops and Laboratories; (16) Columbus Academy of Medicine; other local medical societies, state medical associations, etc.

#### VIGILANCE AND "HEALTH EDUCATION" PAYS

In order to realize that some forceful influence for the prevention of sickness and the promotion of health has been at work upon the campus, one has but to compare the large enrollment of Ohio State University (11,535 in 1924-1925) with the comparatively insignificant amount of preventable sickness which gained access to our student group, in contrast to the higher incidence of disease throughout the city and state. In no other way can the better health of our University Community be accounted for.

#### EPIDEMIC DISEASES

The absence of most of the epidemic diseases until late in the year was a matter of great satisfaction. Usually, in this part of the country, they make their appearance during January, or early in February. This year it was not until March that our quietude was disturbed. The first epidemic disease to appear was German measles, and in one day (March 4) fourteen cases reported for advice and treatment.

Because of the highly contagious nature of this (usually harmless) type of measles, and the approach of final examinations of the Winter Quarter, much apprehension was felt throughout the University. Immediate steps were taken to prevent its spread, and stamp out the disease. Warnings, issued promptly by President Thompson, and the hearty cooperation of faculty and students in reporting cases and observing quarantine, resulted in the total number of cases not exceeding forty-eight (48) during the month, though a few other cases appeared sporadically during April.

*Influenza*—Two hundred forty-five (245) cases of grippe, or "flu" occurred during the year. Nearly all were of the mild type, and complications few, but followed in many instances by a post-influenzal asthenia which was quite persistent. More than one-half of the cases occurred during March.

*Scarlet Fever*—Reported as prevalent throughout the city and state on several occasions during the year, but only six cases (and they of a mild type) occurred among our people.

*Smallpox*—Very prevalent throughout some sections of the state, and virulent in character. It gained access to our city, and was discovered in the University district, in houses where University students were domiciled. Very prompt and energetic measures resulted in complete avoidance of the disease by those under our care and guidance.

*Mumps*—This disease caused the enforced absence of thirty-nine students for long periods during the latter part of the year, and was definitely responsible for a large percentage of the loss of time from classroom by our students. It is the largest number of cases of mumps we have ever been called upon to report in any one year, in the ten years' history of this department.



Ten of the twelve cases occurring in April were definitely traced to out-of-town contacts during the Spring Recess. Mumps is not "reportable," according to our State Health Code, hence the difficulty of preventing its spread. To aid our students in guarding against this and other contagious diseases, we have prepared a new "Health Card" of our educational series. It is entitled, "Some Things You Should Know About Contagious Diseases." We hope to escape a repetition of this year's experience.

#### PREVENTION OF SICKNESS AND CONSERVATION OF HEALTH

In harmony with modern medical opinion, the primary aim of our Health Service is PREVENTION. The treatment we administer is secondary. Our Motto is "PREVENTION IS GREATER THAN CURE!"

Leading health educators agree that the greatest mental receptivity and retention of good advice concerning health occurs when the individual is sick and seeking advice. This is the so-called "psychological moment" of which we take advantage to inculcate the principles of good living. Advice, directions, and guidance given verbally are acknowledged to be somewhat effective, *but we do more*. OUR advice and instructions are carried away by our students in a durable printed form known as "Health Cards." These cards bear a message which cannot be mistaken, misquoted, misunderstood, nor easily forgotten. This, briefly, is one of the principal methods of our Health Education.

During the year two new Health Cards were added to our list, making a total of twenty-four (24) in the series. The cards undergo constant revision to keep them up-to-date. The demand for them by colleges, schools, boards of health, educational centers, etc., continues unabated.

#### SYNOPSIS OF AILMENTS TREATED

A detailed report of the ailments treated in our Health Service is appended and therefore it will be unnecessary to deal with the subject at great length. As usual, acute respiratory diseases occurred with greatest frequency among our students. The incidence of gastro-intestinal disorders also called for an unlimited amount of treatment, and instruction in feeding habits. A number of cases of appendicitis came to us in the guise of "stomach-ache," several of which went to operation without loss of time.

*Emergencies*, ranging from slight accidents to conditions of the most serious proportions, were of daily—sometimes hourly—occurrence. All forms of campus activities contributed to them—classroom, laboratory, work-shop, athletic field, gymnasium, icy walks, sub-zero weather, unseasonable high temperature coupled with excessive activity, plus lack of "condition." Many of the accidents seemed, upon analysis, to have been unavoidable, though in some instances they were the direct result of youthful lack of forethought common to adolescence.

*Local Infections*, with systemic involvement, were numerous during the year. Such cases were promptly referred to specialists for relief of dental, sinus, tonsillar, and other infected foci.

*Immunization* was done consistently whenever permissible. Vaccination against smallpox; prophylaxis against typhoid and paratyphoid, hay fever, influenza, and tetanus were insistently urged or done upon all suitable occasions.

*Minor Surgery* and dressing of wounds continue to be a prominent part

of our work, 1,880 treatments of this character having been done during the year, an increase of 10% over our last previous report.

*Mental Hygiene* was given full attention in those cases which demanded it, and with the cooperation of the Clinic maintained in the Department of Psychology, we have had the satisfaction of observing much improvement in a number of our cases.

#### NEW FEATURES

In keeping with our policy of advancement under the Four-quarter Plan, and believing that the students should have the benefit of our facilities during the entire year, our rooms in Hayes Hall were arranged as rest rooms and study rooms for women, during the Summer Quarter of 1924. The work was placed in charge of Mrs. Maude M. Eckhardt, Secretary of the Department, who ministered to their needs. That this was a movement in the right direction and appreciated, is shown by the fact 2,158 visits were made during the Summer Quarter, by approximately 500 different students. We aim to continue this work during the Summer Quarter of 1925, supplying, in addition, the services of a Registered Nurse during certain hours of the day, for "first-aid."

Two additional "first-aid cabinets" were supplied to campus departments this year. The eighteen now in use have amply justified their installation.

#### PROFESSIONAL ACTIVITIES, PUBLICATIONS, ETC.

Your Director of Student Health Service maintains membership for the University, in The American Student Health Association, and participated in the annual meeting held at New York during Christmas Recess. He also helped to promote and organize a state section of that National Association in Ohio, which, at a meeting April 3 and 4, brought the health departments of twelve prominent Ohio colleges and universities into cooperative alignment.

A contribution to "SCHOOL LIFE," entitled "Some Problems of Health Education in Colleges," and a contribution to "NATION'S HEALTH," entitled, "The Importance of Routine Eye Examinations," were, respectively, the work of your Director and your Assistant Director of Student Health Service.

#### BENEFITS AND COSTS OF THE DEPARTMENT OF STUDENT HEALTH SERVICE

Notwithstanding the efficiency of our Health Service, judged from the standard of prevention of sickness, and the saving of class hours that otherwise would have been lost through preventable sickness, the cost of maintenance has been relatively small. Calculation based upon the total enrollment, plus faculty members and employees who make use of this department, shows that the cost per capita per annum has been kept below \$1. Based upon the number who actually make use of this department, the cost per capita per annum is less than \$2. Based upon the number of visits for consultation, advice, and treatment, the cost per annum is less than 50 cents. And added to the immediate benefit that is included in the saving of valuable time for study, plus the conservation of the health of our future important citizens, there must also be consideration given to the fact that our HEALTH EDUCATION will continue with our students while their life shall last.

Respectfully submitted,

H. SHINDLE WINGERT, M.D.,

*Director Student Health Service.*

(Statistical tables showing the numerous and varied activities of the department were also submitted and placed on file.)



## ANNUAL REPORT DEPARTMENT OF PHYSICAL EDUCATION

President W. O. THOMPSON, *The Ohio State University*:

DEAR SIR—I have the honor to transmit herewith to the President and to the Board of Trustees the annual report of the Department of Physical Education and its allied divisions for the year ending June 30, 1925.

Emphasis in the conduct of the activities of the department during the year has been upon the rounding out and further development of the general program laid down for the department in recent years. There can be no serious question but that further progress has been made in this respect during the year. This progress, moreover, has been more rapid in some directions than others, due necessarily to the varying facilities afforded for different phases of the work.

A year ago it was said "inauguration of the professional courses for both men and women rounded out the general scheme of physical education and thereby brought to partial fruition the efforts of some years. As a result, the University now has an ideal program of physical education in actual operation, leaving only the need for adequate facilities to be met." The value of the addition of these professional courses is reflected in the increased enrollment in these courses and in the general interest manifested in this specialized work.

The recurring experiences of the years serve to emphasize again the value of so compact and comprehensive a system of physical education as we now possess. Its operation becomes smoother and the various parts dovetail more nicely with each passing year. This sort of an arrangement eliminates duplication of work, makes for a concert of effort and produces results it seems to us attainable in no other way.

Under such a program the activities of the Department of Intercollegiate Athletics, for instance, are coordinated with the general program in physical education. The satisfactory results from such an arrangement have been so obvious in our case as no longer to need any particular justification or explanation.

The activities of the department and its allied divisions have been conducted along the following general lines during the year:

- I Required work
  - a. Men
  - b. Women
- II Elective work
  - a. Men
  - b. Women
- III Professional Courses
  - a. Men
  - b. Women
- IV Intramural Athletics
  - a. Men
  - b. Women
- V Intercollegiate Athletics
- VI Alumni Recorder
- VII News Bureau

While the lack of adequate facilities has continued to hamper and handicap the work of the department during the year, there is genuine hope in the fact that before another year part of these deficiencies will have been remedied. Provision in the new University budget for the much needed addition to Pomereene Hall and for the Field House for women will largely meet the requirements of the Women's Department. There remains then the necessity of caring for the needs of the Men's Division, which has long been acute.

In this respect, attention is directed to the subjoined report of Dr. J. H. Nichols of the Men's Division. Reviewing the lack of facilities for men's work—and his words cannot be too strongly emphasized—he says: "A careful survey of conditions has thoroughly convinced me that we are falling far short of meeting our responsibilities and opportunities in the field of physical education for men in this University. If steps are not taken in the near future to remedy this situation, we shall soon be far behind most of the Western Conference schools with whom we should expect to compare favorably."

In this connection it should be stressed again that the Men's Department is handicapped for want of adequate space and for lack of sufficient personnel. The Gymnasium, long since outgrown, is pitifully inadequate to meet even the ordinary physical needs of the department. Until this serious deficiency is remedied through the provision for a new Gymnasium, the work of this department must necessarily fail to realize all that we have a right to expect of it.

It is a satisfaction to report the continued cooperation and general efficiency of the Women's Department under the direction of Miss Lydia Clark and of Dr. Gertrude F. Jones, Medical Adviser to Women. Physical education for women in recent years has made tremendous strides and in this respect Ohio State has not fallen behind.

The medical examinations for both men and women continue to justify themselves and to bespeak the day when even further attention in this direction will be possible. For want of facilities, it has been possible in the case of the men to conduct only examinations for men entering the University for the first time. Because of the more modern and adequate facilities in the Women's Department, it is possible to maintain a closer watch over the physical welfare of women students. The results obtained from such medical supervision, strikingly emphasized in the attached detailed reports, are prima facie evidence of the value of such work, both to the individual student and in the general conduct of the work of the department.

The cold statistics again call attention to Ohio State's continued leadership in the field of intramural athletics. Last year, for the first time, a record of individual participation was kept, which showed that some 4800 individual men took part in the men's intramural program, while the total number of participants for the year was more than 15,000. This serves to prove that the great majority of men students actually take part in intramural athletics, and, further, that their participation is spread over a good share of the year. Further development of intramural athletics for women was another gratifying feature of the year.

Intercollegiate athletics at Ohio State University continued to be conducted with due regard for their proper place in the general scheme of physical education. In this connection, regard was had also for the proper development and direction of Varsity teams in connection with the intramural program and with the general program in physical education.



We agree, in other words, with Professor C. W. Kennedy of Princeton in his brief but valuable discussion of "College Athletics" when he says that "college athletics, properly supervised and properly developed, afford a laboratory training for the development of character such as is not afforded elsewhere in the life of an undergraduate." He says elsewhere in his little book that highly desirable qualities in the individual "are being steadily developed in our undergraduates by a daily testing of action and practice, for which the hours spent in lecture, library, and classroom can afford, in this respect no equivalent parallel."

This is an essentially sane view of intercollegiate athletics. Probably there will always be criticism of intercollegiate athletics, but much of the present criticism comes from those who do not understand its present aims and aspirations or from those who fail to realize the enormity of its problems. For some of these problems the colleges and universities themselves are responsible; for some of the others they are not. But it is only by a sound program, by sanity of action, by a willingness to face the facts, and to receive constructive criticism that these problems can be solved.

Intercollegiate athletics has been likened to a Frankenstein, but such a characterization is hardly justified by the facts. The problems incident to the conduct of intercollegiate athletics will not be solved by mere calling of names nor by blind animosity to it. It is only by frank discussion and a willingness on the part of responsible officials to meet these difficulties that intercollegiate athletics will yield the most satisfactory results.

In this respect, intercollegiate athletics in particular and physical educational in general at Ohio State have been fortunate in having a sympathetic advocate in the person of President W. O. Thompson. While he has kept largely in the background, he has always been ready to aid by counsel or otherwise in attaining more and more closely to the goal for which we are striving. This is a debt that can never be repaid.

Attention is also called briefly to the work of the Alumni Recorder and that of the News Bureau. The increasing usefulness of these two agencies has further proved the wisdom of maintaining and developing these functions. They do not naturally fall within the realm of physical education, but the department is glad to be able to serve the general University interests through these means.

A fine spirit throughout the general department has again done much to minimize the problems incident to the work and has served to hasten the attainment of the desired ends. We are grateful for the continued cooperation manifested on every hand from the lowest to the highest members of the department.

Respectfully submitted,

L. W. ST. JOHN,

*Head, Department Physical Education.*

PHYSICAL EDUCATION

Men's Division 1924-1925

DR. J. H. NICHOLS, Director

A careful survey of conditions at the Ohio State University has thoroughly convinced me that we are falling far short of meeting our responsibilities and opportunities in the field of physical education for men in this University. If steps are not taken in the near future to remedy this situation, we shall soon be far behind most of the Western Conference schools, with whom we should expect to compare favorably.

Under the present organization of our University life, with its laboratory work and heavy academic loads, and with students at an age when their whole nature craves activity and action for its normal and wholesome development, the necessity of a broad and comprehensive program of physical education is self-evident. The all-round development of every girl and boy at this age calls for regular physical exercise and recreative play. Sound nervous systems depends on sound bodies, and these can best be developed and conserved through our school programs of physical education and athletics.

I shall summarize briefly under four heads our situation as it now exists at the Ohio State University.

#### I WHAT IS OUR AIM?

1. To have regular participation by every student in the University throughout his four years, in types of motor activities best suited to meet his special needs.
2. To provide physical examinations at least twice during the student's course as a basis for personal advice and classification in these activities.
3. To provide adequate instruction for all students in the principles underlying health and to enable the student to appreciate and understand health in its social applications.
4. To provide optional intramural athletics for all students, enabling the student to supplement the practice and instruction in various physical activities in the required program with the values of athletic competition as a team member.
5. To provide a four-year professional course of Physical Education and School Health, thus enabling the University to meet its educational responsibilities in turning out college trained men and women qualified to administer these programs in the schools of the State.

#### II HOW ARE WE MEETING THESE AIMS?

1. Regular participation two periods per week in elective activities is required of all first-year students for one year. This reaches about 1800 men each year.
2. Physical and medical examinations are given to all entering students. No further examination is given, unless the student participates in intercollegiate athletics or a special examination is requested.
3. A one-hour course for one quarter in Hygiene is now required of all first-year students.
4. Optional intramural activities are reaching about 5000 different students. In most cases this participation is not regular. Many participate in one or two games during the year or take part in the intramural festival or spring track meet. Such participation is too irregular and haphazard to be of any real physical benefit.
5. A four-year professional course in Physical Education and School Health is now in operation in the College of Education. This must be supported both from the standpoint of staff and facilities.

#### III WHAT FACILITIES ARE AVAILABLE?

The facilities for the accommodation of our 7000 male students in physical education consist of the following:

##### *University Gymnasium*

Floor space for activities.....	78 x 150
Special exercise rooms.....	3
Lockers .....	2000
Showers .....	30

##### *Ohio Field*

Acres . . . . .	7
Tennis courts .....	34

##### *Ohio Stadium*

Track	Lockers	Showers
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##### *Recreation Field, South of Stadium*

#### IV IMMEDIATE NEEDS

1. A new modern gynasium adjacent to the recreational fields and Ohio Stadium to provide for four years of required physical education, intramural athletics, professional courses in physical education, recreation facilities for instructional force.

2. Addition of two men to department staff. One to teach in the major course and handle the practice teaching supervision; the second to be in charge of the corrective and remedial courses in the required program and in the professional courses.



3. A natatorium adjacent to the gymnasium and connected with it, to include at least three pools and with adequate seating capacity.

4. Improvement of the undeveloped tract south of the Stadium for physical education and intramural use.

5. Building of 10 handball courts under the Stadium banks for use of physical education and intramural activities.

6. A graded and progressive four-year required course in physical education for all students that will provide regular physical activity throughout their college course, and give the student an interest and some degree of skill in at least two outdoor and indoor sports, and which would include the ability to handle himself in the water.

7. Building about 25 new tennis courts near the present Stadium courts.

#### FENCING

In October, 1924, 41 freshmen enrolled in fencing, classes being held in the Gymnasium until the close of the football season, when classes were held in the Stadium. In the Winter Quarter two classes were held: Mondays and Wednesdays, 5:00-6:00 p. m., and Tuesdays and Thursdays, 11:00-12:00 a. m., for a beginner's class. A total of 67 men were enrolled in the two classes.

In the Spring Quarter 27 men were enrolled. The small enrollment of the Spring Quarter is due to outside activities. The men enrolling in the Spring Quarter are those endeavoring to make the Varsity squad in their sophomore year. The work progressed favorably during the year, the men being much interested in the work.

#### ELECTIVE WRESTLING

Wrestling has developed into a popular physical education elective activity among the students of Ohio State University. There has been a marked progression in the number of men electing it as their required activity. The following participation facts verify this statement:

	1922-23	1923-24	1924-25
Fall .....	17	52	89
Winter .....	19	235	288
Spring .....	15	19	13

The number of men electing wrestling is limited only by the inadequate facilities of space and equipment. The addition of two new mats, making a total of five, has alleviated the condition somewhat. If the figures of the past are indicative of its growing demand as a physical education activity, necessary steps must be taken to provide adequate opportunity for its election in the future.

Much interest was shown in the freshman wrestling tournament conducted by the Physical Education Department during the Winter Quarter. Eighty men competed in the elimination tournament over a period of one week for their numerals and sweaters. Messrs. Essman, Staley, and Mooney deserve credit for developing wrestling as an educational activity.

#### PHYSICAL EDUCATION

##### Women's Division 1924-1925

MISS LYDIA CLARK, Director

The work of the Women's Division of Physical Education may be grouped under four heads as follows:

1. Supervision and guidance of the health of the women students taking physical activity.
2. Supervision of the Physical Education requirement of the freshman and sophomore women students.
3. Supervision of women students majoring in Physical Education.
4. Promotion of intramural sports for all the women students in the University.

With the increase in the staff, it has become possible to delegate responsibility for the various phases of the work to individuals of the department, thus broadening and increasing the scope of each phase of the Physical Education work.

#### HEALTH WORK

(See Dr. Jones's Report)

Great strides in the health work have been made because of Dr. Jones's efficient and careful organization of the physical examinations of the women students, together with her untiring

efforts with the follow-up health work of individual students. The organization of the health work has laid a foundation for a saner physical activity program and has led to a more active cooperation between the Physical Education instructors and the Medical Adviser. This is especially marked in regard to the corrective work which was organized two years ago, under Miss Gilman's direction. She reports as follows regarding this work:

#### INDIVIDUAL, CORRECTIVE, REMEDIAL GYMNASTICS

This year many more girls were reached through this department than last year. An assistant and slight change in organization has made this possible.

##### Aims:

1. To give the students a better understanding and appreciation of health.
2. To develop well balanced individuals.
3. To develop an understanding that health is improved by overcoming and correcting physical defects.

##### Means used to attain "Aims:"

1. Explanation and demonstration of correct body mechanics.
  - a. Introduction of general developmental exercises.
  - b. Localized exercises.

Conferences have been held throughout the year for girls who want advice about weak feet, menstrual disorders, weak backs, or other conditions, which may be improved through improved health habits and special exercise. These conferences were with girls who (1), came for advice; (2), who were recommended by the physician and the instructors in the various classes. The girls were asked to return, that we might have a check on them and see if they followed suggestions. Very satisfactory results were obtained through the conferences.

Special groups for nutrition classes were arranged in the fall. Here the aim was to give a few suggestions concerning the physiology of exercise, especially in its relation to metabolism. Weight charts were also kept for each girl throughout the quarter. Exercises were given to stimulate the digestive processes. The latter were kept up at home on the days that class work was not held.

Seventy-six girls were in this group.

2	gained 15-20 pounds
15	gained 10-15 pounds
36	gained 5-10 pounds
28	gained 1-5 pounds
5	gained $\frac{1}{2}$ -1 pound

Several of the girls reported this gain to be permanent later in the year.

Groups for special exercises of menstrual difficulties were organized for the first time this year. Here again general health habits and strength were carefully watched, and exercises carried on at home. About 90 girls were reached. Many reported much improved condition.

During the year, 642 were enrolled in individual work. The following conditions (in order named) were the principal ones reached:

- Poor posture, especially faulty weight distribution
- Underweight
- Weak feet
- General fatigue
- Dysmennorrhea
- Weak lower back
- Scoliosis
- Constipation
- Hernia
- Chronic Appendicitis
- Post operative
- Heart
- Thyroid

Next year, with the aid of the major students of the senior class, more entirely individual work along with the group work is planned for. Also, more definite statistics are hoped for.

#### RECOMMENDATIONS

There is need of an Assistant Medical Adviser, as the students are making such demands on Dr. Jones's time that she cannot possibly see all the students needing attention. At the present



time it is impossible to keep records and information concerning physical conditions of students up to date, because of an inadequate supply of clerical help.

We need another full-time stenographer to take charge of these records and relieve the present stenographer from overwork.

## REQUIRED WORK IN PHYSICAL EDUCATION

*Freshmen*

## FALL QUARTER

## (Enrollment Physical Education 421)

Hockey .....	280
Archery .....	75
Corrective work .....	90
Dancing .....	60
Volley ball .....	225
Total .....	730

## WINTER QUARTER

## (Enrollment Physical Education 422)

Gymnastics .....	415
Correctives .....	60
Basketball .....	72
Soccer .....	48
Dancing .....	90
Total .....	685

## SPRING QUARTER

## (Enrollment Physical Education 423)

Track .....	75
Baseball .....	200
Tennis .....	200
Dancing (Interpretative) .....	90
Archery .....	45
Correctives .....	75
Dancing (Folk) .....	100
Total .....	785

## REQUIRED WORK IN PHYSICAL EDUCATION

*Sophomore*

## FALL QUARTER

## (Enrollment Physical Education 425)

Hockey .....	280
Corrective work .....	75
Volley ball .....	100
Archery .....	20
Dancing .....	60
Total .....	535

## WINTER QUARTER

## (Enrollment Physical Education 426)

Gymnastics .....	330
Basketball .....	96
Dancing .....	90
Corrective .....	45
Soccer .....	48
Total .....	609

## THE OHIO STATE UNIVERSITY

## SPRING QUARTER

(Enrollment Physical Education 427)

Track .....	75
Baseball .....	200
Tennis .....	200
Dancing (Interpretative) .....	90
Archery .....	45
Correctives .....	60
Dancing (Folk) .....	80
<b>Total .....</b>	<b>750</b>

The aims of this work are threefold:

1. To develop a health consciousness among the women students taking the work.
2. To stimulate an interest in physical activity and recreation.
3. To call attention to physical defects and advise and assist with the correction of remedial defects.

A physical examination is given each entering student, and from the findings of the examinations, Dr. Jones and Miss Gilman prescribe the types of activity suited to the physical capacity of the students.

Seasonal activities, requiring varying degrees of strength and skill, are arranged for each quarter in such a fashion that the weak, as well as the strong student, can be accommodated. During the last three years it has been possible to improve the quality of the work and give more attention to the needs of individual students, but the staff feels very keenly that there is great need for further reorganization of the work, in order to approach in any large measure the aims outlined for the courses.

There is unanimous belief that the time requirement should be increased from the present two hours a week to four hours a week. This will give opportunity for the student to obtain more nearly the amount of activity necessary for maintenance of health.

The students, as well as the instructor, complain that the time allotted for physical activity is far too short to produce sufficient skill to enjoy the sport.

There is also dissatisfaction on the part of the students because we have been unable to offer advanced work. Even with the increase in the teaching staff, it has been impossible to arrange advanced classes in each activity. A situation of this nature creates a distaste for activity and inhibits the "carry-over" of a desire for activity during the junior and senior years, as well as after college life. An increase in staff will remedy this and will, with the increased floor and field space, permit us to arrange a program which will be of greater social value.

## PROFESSIONAL COURSE

*Enrollment*

Freshmen .....	33
Sophomore .....	25
Junior .....	21
Senior .....	1
<b>Total .....</b>	<b>80</b>

The enrollment in the professional course is increasing rapidly and creating many new demands on the department.

Teachers of Physical Education come in very close contact with the students whom they are teaching. Therefore, it is important that every effort be made to encourage the student of high mental and spiritual caliber and to discourage students who appear to lack the qualities necessary for intelligent leadership. This involves time spent in conference and will mean a reduction of the teaching load of the members of the staff who may act as advisers.

Undoubtedly the majority of these students will go into public school positions. This will necessitate careful supervision of the practice teaching of work in the elementary, as well as the secondary schools. Miss Hersey has been appointed for this work.

The course is planned to give a scientific, cultural, and educational background. There is need, however, for several changes in the courses, especially in Physiology. Here, there is urgent need for laboratory work with attention given to the problems of exercise. In the education course it is advisable to allow more opportunity for elective courses in case students may desire to specialize in various fields of Physical Education.



## INTRAMURAL SPORTS

Miss Palmer, who is in charge of intramural sports, reports as follows:

"The increase in the number of women students taking part in intramural sports has been phenomenal. In the Winter Quarter of 1922 the first activity was offered and 16 sororities responded to the invitation for basketball teams. At this time approximately 200 women participated in 18 scheduled games.

"This year, in the Spring Quarter 1925, 78 teams, with a membership of 592 women students, participated in 136 games in baseball, tennis, track, and horseshoe pitching. Not only sororities were represented, but clubs, dormitories, and independent teams. The enthusiasm with which these students respond is indicative of the need for wholesome, competitive recreation among the women on the campus.

## SUMMARY OF SPORTS

*Fall Quarter*

"Field hockey was offered as an intramural sport for the first time. Three hundred thirty-six women played on 28 hockey teams, having a schedule of 31 games. Five sororities were represented, all others being independent teams.

"Volley ball was offered in an inter-class tournament, 36 women playing six games.

"The annual fall archery tournament was held for the high score, and Mildred Reelhorn was the winner.

*Winter Quarter*

"Basketball continued to prove the most popular of the winter sports. This year, 34 teams representing sororities, clubs, dormitories, and independents, participated in 77 games. All games were played after 6:30 p. m. because of crowded conditions during the day. Three hundred forty-five women took part. Kappa Kappa Gamma won the sorority championship and the "Buttons," an independent team, won the intramural championship.

"Soccer increases in popularity as the only outdoor sport offered during this quarter. Seventy-eight women enjoyed the exhilaration of this activity, playing on six intramural soccer teams.

"Indoor baseball was offered in an interclass tournament, 31 women taking part.

*Spring Quarter*

"The Spring Quarter was by far the most successful season of sports for women. There were tournaments played by 38 baseball teams, 12 tennis doubles teams, 24 horseshoe teams, and 40 women in tennis singles. Four hundred twenty-eight women played in 76 baseball games, the Chi Omegas winning the intramural championship. Twenty-four women played 21 games for the intramural tennis doubles championship, the Kappa Deltas winning the tournament.

"This was the second season for horseshoe pitching, the entries doubling last year's. Forty-eight women played 39 matches for the championship, which was won by Hazel Dilts and Angeline Glenn.

"In a field of 40 entrants, Virginia White won the all-University singles tennis tournament.

"There were class teams in baseball, track, and archery.

"On field day, 48 Ohio State women participated in a triangular telegraphic track meet with Iowa and Northwestern and won a decisive victory, taking five first places, tying for another first place, and placing in all but one event. Ohio State annexed 362.5 points. Northwestern was second with 305.6, and Iowa third, with 283.6 points.

"All seasons were closed with intramural banquets, the average attendance being 250."

## THE WOMEN'S ATHLETIC ASSOCIATION

In 1921 the Women's Athletic Association had an active membership of 35, with a governing board of 10 students and one Faculty Adviser.

At this time the Association has an active membership of 148 women, who have earned membership through the winning of points for athletic accomplishments. The governing board is composed of 19 students and one Faculty Adviser. The board members represent each branch of organized sport, and the officers of the Association. For the first time in its history the Association is out of debt and has assets approximating \$600.

Much of the success of the past year in the Association has been due to the excellent leadership of Margaret H. Meyer, the president.

Facilities are needed for:

Golf	Swimming
Rifle Shooting	Bowling
Recreation Field and Field Lodge	

## THE OHIO STATE UNIVERSITY

## REPORT OF THE MEDICAL ADVISER TO WOMEN

DR. GERTRUDE FLINT JONES

In comparing this year's work with that of the year 1923-1924, the more important progress has been made along the five following lines:

1. A more careful following through the year of the individuals having serious physical defects, such as heart conditions, mildly toxic goitres, nephritis, chronic or subacute appendicitis, suspected incipient tuberculosis, etc., and supervision of of their schedules and working load.
2. Cooperation with other departments.
  - a. The Psychology Department working with the maladjusted students has not only used the medical examination records, but also has referred students for medical examinations.
  - b. The Home Economics Department has referred a certain group of the senior students for medical examination.
3. There is still much to be desired, anent cooperation in planning the academic load and outside work to be carried by students slightly below normal physically (as distinguished from those having serious defects as in (1) above); however, more has been done along this line this year than last year.
4. The Corrective Department of Physical Education, under Miss Gilman, has been given the responsibility of correcting, by specially planned exercises and conferences, such medical conditions as are apt to come from sedentary life or incorrect habits, faulty nutrition, constipation, and menstrual disorders.
5. The changing of the special nutrition class for those freshman women 15% or more underweight from the Winter Quarter to the Fall Quarter, thus enabling the underweight freshmen to establish correct food habits immediately upon coming to the University, was probably responsible for the far more encouraging results of the nutrition class this year. Not only a much larger per cent of the underweights gained, but also the individual gains were greater this year than last. (See Miss Gilman's report.) The splendid cooperation of Miss McKay in the Home Economics Department is again largely responsible for the success of this special class.

The three main branches of the work of the Medical Adviser to Women remain the same as last year:

1. Complete medical examinations and classification according to physical assets or liabilities of all freshmen, sophomore, and newly entering upperclass women.
2. Advising measures to be taken by those presenting physical abnormalities and working load to be carried by these.
3. Instruction in hygiene.

## FALL MEDICAL EXAMINATIONS

Fifteen hundred and sixty-eight women, freshmen, sophomores, and entering students, were examined between September 26 and October 7, 1924, with the assistance of Drs. Welch, Transeau, Jasper, LeVeque, Gorrel, and Converse, and the Specialists, Drs. Beatty, Frost, Tanner, and Thomas. This was the first year the women have had the advantage of eye, ear, nose, and throat examinations by specialists, and it was only through Dr. Beatty's very efficient cooperation that it was made possible.

The 1,568 women were classified as follows:

		Freshmen	Sophomore	Total
Class "A"	Physically fit for any sport.....	599	573	1,172
Class "B"	Physical defects necessitating some restriction in activity .....	43	88	131
Class "C"	More serious physical defects necessitating special supervision .....	21	21	42
Class "D" and "E"	Serious physical defects necessitating no physical activity (rest or excused).....	..	..	33
Class "F"	15% or more underweight. Put in special nutrition class for one quarter.....	99	..	99
Special corrective exercises.....		91	..	91
Total .....		853	682	1,568



It was not possible to assign the students in Class "D"—those who would be benefited by regular hours of rest rather than the physical education work—to rest periods in Pomerene Hall this year, because of the growing demand for space in the building. Therefore, they were excused from their physical education requirement.

The medical conditions in this group were as follows:

Arthritis .....	5
Asthma .....	1
Chronic appendicitis .....	1
Heart lesions .....	3
Injuries .....	9
Menstrual disturbances .....	5
Nephritis .....	2
Possible incipient tuberculosis.....	1
Recent operations .....	6

Special attention was paid to and advice given for the correction of the following conditions:

Condition	No. in which condition found
Constipation .....	138
Menstrual disturbances .....	409
(referred for special correction).....	75
Nutritional disturbances .....	105
(Overweight 30% or more).....	14
(Underweight 15% or more).....	91
Thyroid enlargements with symptoms.....	36
Vaccination refers .....	423
(Unvaccinated or not vaccinated within 9 years)	

For summary of findings in the fall medical examinations, see appended lists.

Of the 1,568 examined, 172 were referred back to the Medical Adviser for further examination, advice, or follow-up.

Office calls Fall Quarter 1924. Regular office hours were held daily throughout the quarter.

Refers .....	172
Voluntary (for conditions see appended list).....	510
Total .....	682
Last year's total.....	332

#### WINTER QUARTER MEDICAL EXAMINATIONS

Classes as given under Fall Medical Examinations	Freshmen	Sophomores	Total
Class "A" .....	18	26	44
Class "B" .....	5	4	9
Class "C" .....	1	2	3
Class "D" and "E".....	2	..	2
Special corrective exercises.....	12	10	22
Total .....	38	42	80

Of the 80 examined, 17 were referred back to the Medical Adviser for more complete examination or follow-up.

Excused from Physical Education Winter Quarter..... 40

Medical conditions in excused group:

Chronic appendicitis .....	5
Heart lesions .....	2
Lung conditions .....	2
Menstrual disturbances .....	4
Nephritis .....	4
Nervousness, debility, underweight.....	6
Post operative .....	5
Slightly toxic goiter.....	5
Miscellaneous .....	9

## THE OHIO STATE UNIVERSITY

## HEART EXAMINATIONS

All women playing intramural basketball were required to have a heart examination before playing.

No. examined .....	303	No. rejected for basketball..	18
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## OFFICE CALLS

Refers .....	17
Heart examinations .....	303
Voluntary calls (for conditions see appended list) .....	533
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Total .....	853
Last year's total .....	494

## SPRING QUARTER MEDICAL EXAMINATIONS

Classes as given under  
Fall Medical Examinations

	Total
Class "A" .....	42
Class "B" .....	8
Class "C" .....	2
Class "D" and "E" .....	1
Special corrective exercises .....	11
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Total .....	64

Of the 64 examined, 11 were referred back to the Medical Adviser for more complete examination or follow-up.

Excused from Physical Education, Spring Quarter .....	40
Medical conditions in excused group:	
Chronic appendicitis .....	5
Injuries .....	3
Menstrual disturbances .....	7
Old infantile paralysis .....	2
Post influenza .....	3
Miscellaneous .....	12

## OFFICE CALLS

Refers .....	11
Home Economics Seniors for medical examination .....	27
Voluntary calls (for conditions see appended lists) .....	304
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Total .....	342
Last year's total .....	237

## HYGIENE

	Sections	Total Enrollment
Fall Quarter .....	3	322
Winter Quarter .....	4	286
Spring Quarter .....	3	134
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## NEEDS OF THE MEDICAL ADVISER TO WOMEN

## 1. In the teaching of hygiene to freshman women—

- a. More time for the hygiene course. Hygiene will continue to be an inadequate course as long as only one hour a week for one quarter is required. Besides not giving sufficient time to more than touch the field, a one-hour course is not taken seriously by the students and they have time to forget the trend between each lecture. Three hours a week for one quarter would aid materially in making the hygiene course much more effective. Health in education is playing an increasingly important role; and not only to keep abreast of the times, but also to give the students a foundation on which to build the best possible health for themselves and others, is it not necessary to make the hygiene course more effective?
- b. An assistant to the Medical Adviser to take over a large part of the teaching of hygiene. This would reduce the numbers in each section, which would allow of more discussion and also it would give the Medical Adviser time to do more of the follow-up and advisory work.



2. Medical examinations before the University classes begin. At present, freshmen and sophomore women are examined during the first week of the quarter. First, this necessitates the student cutting classes at the time of her appointment for medical examination. (Often she misses two classes, or sometimes even more.) Secondly, since the gymnasium is used for the examinations, it means that the work of the Physical Education Department cannot begin until the examinations are over—always a week late, and sometimes more. If the freshmen and entering women were required to come a week early, in order to get their rooms, get acquainted with the campus, and have their medical examinations, the adjustment to college life in the first few weeks would be a great deal easier, beside allowing Physical Education classes to begin the first week.
3. The services of consulting specialists and laboratory facilities, of which the students may avail themselves without paying the sometimes prohibitive specialist's fee. This might be done by having the specialists on the staff at the University Hospital take care of the referred students, as is already done in some of the specialties—notably ear, nose, and throat and X-ray. That such services are needed is shown by the fact that of approximately 1,000 students who came into the office for advice through the year, 53 or about 5%, were referred to eye, ear, nose, and throat specialists; 26, or about 2.5%, were referred for basal metabolisms to determine whether they were suffering from toxic goiters; 20, or about 2%, were referred for diagnosis or treatment of menstrual disorders; 15, or 1.5%, were referred for X-rays; 40 referred for miscellaneous conditions, making a total of 154, or 15%. Reports were received concerning 25 of the 154, or 2.5% of the 15%, showing that the majority did not report to the specialist at all (allowing even for the doctors who did not send reports).

#### PROFESSIONAL COURSES

By DR. J. H. NICHOLS

Some 15 years ago, with the beginning of the present administration in the Department of Physical Education, the need for the training of college men and women to fill the positions of leadership in the field of Physical Education and athletics was recognized. At this time a few courses were offered in the College of Education as a minor. These courses were gradually developed and additional courses were introduced in the Summer Session to meet the ever increasing demands of teachers in this field for courses of this nature.

In 1916 a complete four-year course was drawn up, which provided for a major in Physical Education in the College of Education. Due to the war, the course was dropped for the time being the following year. With the close of the war, a new and more comprehensive curriculum was drawn up and in 1921 was presented to the committee on instruction and later to the College of Education, receiving the indorsement and approval of both.

In 1923-1924, the sophomore year work was offered; in 1924-1925, the junior year; and with the beginning of this year, 1925-1926, the complete four-year major in Physical Education, leading to the degree of Bachelor of Science in Education, is being offered in the College of Education.

#### AIMS OF THE CURRICULUM

This curriculum has been so arranged that a broad, general, and scientific education is combined with the specialized training in this field. The course gives opportunity for special emphasis along one of three lines: (1) Physical Education and Health Education in schools and colleges; (2) athletic coaching; (3) community recreation. We believe that the College of Education should be training men and women who are qualified both by professional training and character to fill the positions of leadership and responsibility in this field in our own and neighboring states.

#### PRESENT STATUS

The complete four-year course is now in operation, and with the close of the present school year the first graduates (six in number—all men) will receive their diplomas. The course has attracted the attention of educators from all parts of the country, and hundreds of requests asking for information in regard to the course have been received.

The course is an extremely difficult one, due to the heavy biological science requirements and large amount of laboratory work required, in addition to all the general requirements of the College of Education. For this reason, the course has not been elected liberally by the men, especially by men in athletics, who, in many cases, because of personality and ability, are just the men who should be enrolled in this course. I believe, therefore, that while it has been wise to go slow and build on a solid foundation, we are, to some degree, defeating our own purposes; namely, to meet the needs in the schools of the state and place college men of character and

personality backed up with educational and professional training in these most important positions. If we do not meet this need, other institutions will. If we do not turn out more high-grade men than we are enrolling at present, the schools will continue to accept athletes who have had no professional training and who carry to the work no vision or conception of the educational values and possibilities of this work. The theoretical and ideal must be reconciled with the practical needs of the work.

The present course will attract the right type of women who are not carrying heavy extra curriculum activities in the form of intercollegiate athletic competition, but men who are participating in intercollegiate athletics hesitate to enroll in a curriculum with such heavy laboratory requirements.

In the light of our experience and study during the past three years, I believe we are justified in making certain modifications and changes in the men's course that will make the course somewhat less rigid and permit of a slightly wider range of electives. Conferences were held with various members of the department and with the dean of the College of Education and with Professor Landacre in regard to proposed modifications and changes in the course.

#### CHANGES PROPOSED IN CURRICULUM (MEN)

The following changes in the men's curriculum were proposed:

1. Students who present two units of credit in high-school chemistry will not be required to take University chemistry.
2. The requirement of three units in one foreign language be changed to three units in any foreign language.
3. The physiology requirement be modified so that physiology 401-402 meet the requirement for those not taking college chemistry.
4. School Administration 601 be withdrawn from the specified professional requirements.
5. Anatomy 402 be removed from the curriculum and five hours elective inserted.
6. Bacteriology 607 be removed as a specific requirement and be made elective.
7. Change requirement in educational professional group required in all curricula to 40 hours instead of 50.
8. Give credit in professional group requirement for all curricula of 10 credit hours for the 25 credit hours completed in theory and practice of physical education.
9. Industrial Education 626, two credit hours be withdrawn from specified professional requirements.

#### CHANGES APPROVED

The following changes were approved in the men's curriculum:

1. Change of present foreign language requirement to read, "students who have credit for 3 units of foreign language in high school are not required to take any in college."
2. School Administration 601 withdrawn from the group of "professional requirements for all curricula" for Physical Education.
3. Bacteriology 607 was withdrawn as a requirement.
4. The professional group requirement of 50 hours was changed to 40 in the Physical Education curriculum.
5. Industrial Education 626 was withdrawn from the professional group requirement for men majoring in Physical Education.

#### CHANGES IN THE MINOR IN PHYSICAL EDUCATION

The following changes were made in the minor for men in Physical Education. The prerequisites for all courses will be one unit of high school chemistry or Chemistry 401 and 402. Physiology 401 and 402 will meet this requirement, as well as 403 or 404.

These changes, while not materially altering the educational foundation of the work, will make the curriculum more flexible and will permit students to elect courses outside of the Physical Education curriculum in which they may be interested. We find that many of our students desire to take advanced work in physiology, hygiene, or psychology, but under previous conditions the heavy requirements used up all of the elective hours.



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## CURRICULUM FOR MEN AS APPROVED AND MODIFIED FOR 1926 DISTRIBUTION OF HOURS

Physical Education and Military Science (general)....	9	..	..
Physical Education .....	47	..	56
Science:			
Zoology .....	5	..	..
Anatomy .....	10	..	..
Chemistry .....	10	..	..
Physiology .....	10	..	35
Academic Requirements:			
Foreign Language or Elective.....	10	..	..
English .....	10	..	..
Public Speaking .....	5	..	..
Psychology .....	5	..	..
Sociology .....	10	..	40
Education (specified) .....	25	..	..
Elective in Education.....	9	34	34
Method at large.....	..	6	..
		40	
General Elective .....	..	..	25
			190

## PRESENT STATUS ENROLLMENT

The present enrollment in the men's course, according to years, is the following:

Freshmen .....	10
Sophomores .....	10
Juniors .....	9
Seniors .....	6
Total .....	35

## ADVISORY SYSTEM

All men, before registering for this course, are required to have a conference with Dr. Nichols. Every student in the course must have his schedule approved by his adviser each quarter. In this way, it is possible to keep a close check on the individual and the character of work he is doing. A personal record card is kept for each student, giving us not only his scholastic record, but a history of his athletic ability and reactions of the department members in regard to his personality and general fitness for the field.

## TEACHING PERSONNEL

With the addition of this year's course, every member of the Men's Department will be contributing in the instructional work in these courses.

Due to the rapid increase in the enrollment in the required courses and the failure in the budgets of the past six years to make any provision for any increase in instruction, the department has reached the point where something must be done if we are to carry on the professional courses. For the last four years we have recommended the addition of one high-grade man to the staff to take over some of the advanced theoretical courses and to take over and handle the supervision of practice teaching and assist in the advisory system that is being carried on with all students enrolled in the course. We also must secure a well trained man to develop the courses and supervise the work in corrective and remedial gymnastics. The importance of this work makes it a grave mistake to continue to load this work on instructors that are already carrying more than full time loads.

## EQUIPMENT AND FACILITIES

The present gymnasium has been one of the chief factors that has held up the development of the professional course. We have not dared to push the course in any way, as we knew that, under the present conditions, we should be hopelessly swamped if we enrolled a large group. We have done little in the promotion of this course for this reason.

We have now reached the point where we are not able to arrange floor space for the men in the professional courses and also handle our general required program and intramural

activities. A new gymnasium must be built in the next biennium or the progress of Physical Education in the University and state will receive a severe setback.

#### INTRAMURAL DEPARTMENT

GRANT P. WARD, Director

Approximately 80 per cent of the male students at Ohio State University took part in some form of intramural athletics during the year 1924-1925. Complete records show that 4,811 different individuals were enrolled in the 19 intramural sports, while the total participation, counting duplications in the various activities, was 15,702. Beyond a doubt, this stands as a record for not only the Western Conference, but the entire country, except in some small colleges where intramurals are compulsory for one or more years.

This is the first year that the department has attempted to keep an accurate check on duplications in different sports, and the figures reveal some other startling information. It has been alleged that a select few of a given organization were forced to carry the burden of participation and that these men acted as "repeaters" in the different sports.

The average fraternity used between 25 and 50 different men throughout the year, while many of them went over the 60 mark. In some of the looser units, such as colleges, clubs, etc., the number mounted rapidly. The College of Agriculture used more than 200 individuals, and many of the colleges more than 100. These records disprove rather conclusively the contention that intramural participation works in a small circle.

More and more attention is being paid to intramural development in other Western Conference universities, but Ohio State, Michigan, and Minnesota are the only ones that are spending more than \$10,000 a year on their intramural departments. Minnesota now surpasses Michigan, while Illinois has dropped to fourth position. Purdue, in spite of its small enrollment, continues in fifth place, while Chicago, by a unified effort, has pulled along side of Wisconsin. The latter will probably make a determined bid for honors during the next year. Iowa and Indiana rank next, with Northwestern last. The majority of schools are following the Ohio State system, but we are still far in the lead in participation, finances, and literature. Ohio has more men taking part than any other two universities combined.

Basketball continued to be the most popular sport, and this year 271 teams were organized into 47 leagues with 2,437 different individuals getting the benefit. This is double that of any other Western Conference school. Several other sports attracted more than 1,000 men; viz., track, indoor baseball, horseshoe pitching, baseball, bowling, and playground ball. All of these had more than 100 teams except baseball, which totaled 94. For the year the grand total was 1,242 teams, organized into 148 leagues and playing 3,115 contests. In soccer there were 47 teams, which is more than in all other Conference schools combined.

While the net gain in the number of men participating is smaller than in previous years, still there was a large increase in the number of teams taking part in the various sports. This indicates that the different organizations are concentrating on the quality of their team and are entering more into the spirit of real competition. For example, 11 new teams appeared in soccer, horseshoes, and indoor baseball; 39 in basketball; 33 in playground ball; and 28 in bowling. Others showed only small increases. The organization of Class "B" teams also had something to do with the increase of teams without a corresponding increase in numbers of men in some of the sports. This allowed a unit to use their men in two teams instead of scattering them throughout the season on one team. It thereby caused a concentration of quality on the so-called first team.

However, the increase in different units caused an expansion of the number of awards, and increased the number of officials necessary to care for a given sport. It also made necessary the purchase of additional equipment to take care of the increased number of games. These things naturally show up in the financial report of these items and account for the increased outlay there.

A summary is given below:

Sports	Number
Soccer (47 teams) .....	648
Football (interclass) .....	156
Cross country .....	155
Indoor baseball (88 teams).....	1,028
Indoor golf (33 teams).....	242
Basketball (271 teams) .....	2,437
Foul shooting (40 teams).....	702
Bowling (130 teams).....	1,139



Sports	Number
Boxing .....	145
Wrestling .....	196
Fencing .....	45
Festival (96 teams).....	2,473
Baseball (94 teams).....	1,280
Playground ball (117 teams).....	1,517
Horseshoes (114 teams).....	1,067
Swimming (42 teams).....	327
Carnival (71 teams).....	1,603
Tennis (111 teams).....	433
Golf (26 teams).....	109
Total, Season 1924-1925.....	15,702
Total, Season 1923-1924.....	14,827

Net Gain ..... 875

(Note: Where no teams are given, the competition was individual and not by teams.)

Eliminating duplications in different sports, there were 4,811 separate individuals taking part in all sports.

#### SUMMARY OF LEAGUES, TEAMS, CONTESTS, AND INDIVIDUALS

Sport	Teams	Leagues	Contests	Individuals
Soccer .....	47	11	87	648
Cross Country .....	..	..	1	155
Indoor baseball .....	88	14	163	1028
Football .....	6	1	8	156
Indoor golf .....	33	..	3	242
Basketball .....	271	47	712	2437
Bowling .....	130	22	369	1139
Foul shooting .....	..	..	1	702
Boxing .....	..	..	173	145
Wrestling .....	..	..	198	196
Fencing .....	..	..	42	45
Indoor track .....	96	..	1	2473
Horseshoe pitching .....	114	19	353	1067
Playground ball.....	117	20	361	1517
Outdoor track .....	67	..	1	1603
Baseball .....	94	14	267	1280
Tennis .....	111	..	281	433
Golf .....	26	..	98	109
Swimming .....	42	..	1	327
Total (1924-1925) .....	1242	148	3115	15,702
Total (1923-1924) .....	1134	120	2512	14,827
Net Gain .....	108	28	603	875

Number of different individuals competing, 4,811.

#### SUMMARY OF SPORTS

##### FALL SPORTS

The adoption of Eastern time enabled the department each afternoon to schedule two games on each of the three fields in soccer, and 30 games were played each week. Forty-seven teams enrolled and the championship was won by the Chinese Students' Club, composed entirely of Chinese. Six hundred forty-eight men took part in this sport.

With 88 teams in indoor baseball, it was found necessary to schedule games on Friday nights in order to get this crowded schedule through before the Christmas holidays. One thousand twenty-eight individuals favored this growing popular sport, but its expansion is threatened because of lack of playing space.

Cross country was increasingly popular and 155 men actually finished the three-mile run. The keenness of the competition can be judged by the fact that it was very difficult to pick the men in order of finish because they finished in such close order.

For the second time, indoor golf was on the program and 18 new teams entered the tournament, which was conducted at the Athletic Supply Store. Two hundred forty-two men were in this "putting" tournament and the interest was very great.

#### WINTER SPORTS

A new record was set in basketball when 271 teams were scheduled. More than 100 contests were played each week except during Farmers' Week and during the championship eliminations. Fraternities were allowed to enter three different teams and there were 61 in Class "A," 30 in Class "B," and 42 in Class "C" (pledge teams). The other 138 teams represented clubs, military, gym, faculty, college, church, and independent units. About 70 of these were exempt from payment of fees, which is more than the total number of teams in this sport five years ago. The free throw contest attracted 702, and Theta Chi won the Western Conference championship, with a score of 192 out of a possible 250.

With 28 new teams in bowling, this activity took second rank in the popularity of intramural sports. It also made it necessary to prolong the season and start the games in the Fall Quarter and finish them after the Festival. They took up so much of the time on the alleys that the department for the first time paid part of the cost, this being the expense of the pin boys. The fourth Western Conference Bowling Tournament was conducted here and again Minnesota won.

Wrestling, boxing, and fencing again showed slight increases, but the interest was high as the large crowd that turned out each night attested. The elimination method was used with competent instructors and judges from the Physical Education Department.

New life was given the Eleventh Annual Intramural Festival at the Coliseum, and the second largest attendance in its history was the result. Competition was as keen as ever and so large were the entries that three days were given over to the preliminaries, instead of one, as formerly. The Indiana-Ohio State basketball game was replayed and the rooting, especially during the second half, was almost as realistic as at a regular game.

The 1925 illustrated program was the finest ever put out by the department. It contained a review of the year's work in intramurals. For the first time a fraternity and sorority sing was conducted in connection with the Festival, and its great success warrants its continuance. Two thousand, four hundred seventy-three individuals took part in the preliminaries and about 600 were left for the final on that night.

#### SPRING SPORTS

There were 94 baseball teams this spring. For the first time, a Tertulia Club (Southern) defeated the fraternity leader for the university championship. Sigma Chi won the Runmakers Cup, awarded by the Thos. E. Wilson Company. The furnishing of free equipment for all games, started by Ohio, is now in use in most conference schools and has resulted in increased interest in this sport. One thousand two hundred eighty men took part in this activity at Ohio State. About 20 games were played in this sport each evening.

With 117 teams in playground ball, it was necessary to schedule 18 games each night, in order to finish the schedule. In addition to the campus diamonds, three on Ohio Field were pressed into service. Adding of Class "B" teams accounted for much of the increase, and 1,517 men took part. This is five times the number competing at any other conference university.

The swimming meet was again held at the Y. M. C. A. pool and one night was used for the preliminaries and a second night for the finals. Three hundred twenty-seven men appeared in the various events.

Outdoor track, like the Festival, has increased so tremendously that it is necessary to have two days for the preliminaries and one for the finals. Fine weather made it an auspicious affair, in which 1,603 men, representing about 75 organizations, took part.

Four hundred thirty-three players entered the three classes of tennis: viz., doubles, men's singles, and freshman singles. The Gymnasium and Stadium courts were used and they were kept busy every afternoon for more than a month in deciding the championship in each of the three classes. Golf was also run in singles and doubles, and 109 men took part, while 26 teams were in the doubles. Matches were scheduled on the various links near the city.

#### RECOMMENDATIONS

While the intramural facilities are far from being ideal, it is realized that there is no prospect of improvement in a number of them. Lack of space for indoor baseball and basketball



is seriously hampering the administration of these activities. However, until a new gym or an auditorium becomes a reality, there is no possibility of getting the relief needed.

Closely connected with these in the matter of facilities are bowling alleys, a golf course, and a swimming pool. These are also needed, but they seem to be far in the future.

More tennis courts will be necessary to conduct properly the participation in this sport. It should really be conducted on a league basis the same as baseball, basketball, etc., but there is no hope of having anything more than elimination contests until many more courts are available.

These things are mentioned merely to emphasize the fact that the department is alive to the needs of these sports and the provision of furnishing facilities for practice as well as the playing of games.

The Stadium baseball diamonds are in wretched condition and these could be bettered to a considerable extent. It is again urged that 10 or 12 be put in condition next spring, so that a decent game can be played on any one of them. The expense is too great for the Intramural Department to defray from its budget, which means that if it is to be done at all, it must be by the University or the Athletic Department.

A Field House will be necessary before the situation in indoor track can be given any adequate relief.

The adoption of Eastern time has temporarily saved the crying need for more soccer fields, while the use of old Ohio Field has bridged over the playground ball necessities.

Checking of valuables during contests in the gym was a big improvement and should be continued again. Reduction of fees to \$1.00 in most sports has proven a big incentive to competition, although, of course, decreasing the revenue. It has demonstrated its worth and should be a fixture. Addition of a part-time stenographer or assistant is becoming increasingly of more importance and cannot be put off much longer. The keeping of accurate records of intramural work is essential, but has become a tremendous burden upon the managers, who have multitudinous duties. It should not be overlooked that the Intramural Department managers now run the track events and keep them on schedule in the Ohio Relays and the State Interscholastic Meets. Thus they are fitted for more important things than keeping of so many kinds of records.

The discarded mimeograph machine of the Publicity Department has been of incalculable value during the past year and a great time saver as well. However, it needs overhauling and some repairing.

No report would be complete without acknowledgment of the ready financial support accorded the department by the Athletic Director and Athletic Board. It is all the more appreciated because of the knowledge of the difficulty that many of the other departments in the conference encounter in getting such needed support.

#### FINANCIAL STATEMENT

There was a large addition to the expenditures this year in three main items: viz., officials, equipment for games, and printing. The first two of these were a direct result of great increase in the number of competing teams, with the result that more officials were needed and more equipment was necessary. The third was forecast last year when the retail merchants ruled out the advertising in intramural handbooks and schedules. These have become accepted as fixtures, and it was essential that the department continue to publish them at its own expense. A fourth item was the decrease in money received from fees by reducing them to \$1.00.

This was partially offset by the increased receipts from the Festival, but not in a large enough amount. Part payment for use of the bowling alleys more than wiped out this increase in revenue.

It should be noted again that the proposition of financing an intramural program forms a unique problem. Where in most enterprises involving expenditure of money, the overhead increases very slowly with increased activity, such is not the case with intramurals. Every time a new league is added to a sport, the cost of officials to run the game, the purchase of awards for the winning team, and the furnishing of equipment for the contest all cause an entirely new outlay of money. Nine such leagues were added in basketball, five in bowling, seven in playground ball, three in soccer, etc. All of these combined caused the expenditure of additional hundreds of dollars in the total amount needed. Also, the more leagues in action, the higher the cost of printing schedules.

In comparison with results obtained, however, the outlook is gratifying. At Ohio State, the cost is about 50 cents per man handled by the department, while at Michigan and Minnesota it is more than \$1.25 per man. This, too, in spite of the fact that Ohio handles twice as many contestants.

That the results are worth while can be gleaned from the fact that several times during

the year every large newspaper in the country carries several wire stories about Ohio's intramural system, while such magazines as the Athletic Journal and Big Ten Weekly have commented editorially about the success of the Ohio system.

A detailed financial statement follows:

#### CONDENSED STATEMENT OF INTRAMURAL ATHLETIC EXPENSES, 1924-1925

EXPENDITURES	
<i>Telephone:</i>	
12 months' service and tolls.....	\$ 82.90
<i>Printing:</i>	
Posters, handbooks, schedules, program, etc.....	1,173.68
<i>Trophies:</i>	
Cups, medals, ribbons, etc.....	2,566.89
<i>Maintenance:</i>	
Equipment for games.....	1,722.20
Office supplies .....	293.94
Stamps .....	240.00
Labor .....	182.50
Typewriters (rental, purchase, and repairs).....	200.03
Officials for games.....	1,893.50
Miscellaneous .....	253.40
	<hr/> \$8,609.04
RECEIPTS	
Budget (Account No. 16).....	\$5,450.00
Fees in all sports.....	820.00
Advertising in program.....	81.00
Festival exclusive of program.....	754.50
Sale of program.....	136.50
Relay Carnival .....	96.00
Concession, equipment, etc.....	123.60
Overdraft on Account 16.....	1,145.44
	<hr/> \$8,609.04

#### INTERCOLLEGIATE ATHLETICS

GEORGE M. TRAUTMAN, Assistant Director

Based upon student participation, student and public attendance, receipts, improvements, and records of performance, the Department of Athletics is willing that the year 1924-1925 be compared with any in the history of the University.

The department wishes to reaffirm the ideals and standards that have served as the foundation upon which have been built its records and achievements, and sincerely believes that the future of intercollegiate athletics is safe just so long as its program is conceived as an educational contribution.

It is not folly to believe that a healthy contribution in the molding of the character of young men and young women is made on the campus playfields of our colleges. The finger of suspicion will always point to any enterprise that is successful, and, consequently, college athletics must accept and withstand the many challenges hurled at the whole athletic program.

Modern college athletics are governed by an unflinching code of sportsmanship. The participant and the spectator are learning by precept and example that the conflicts of life, however bitter and exacting, must be won, if at all, without the sacrifice of integrity and chivalry, or of sportsmanship and honesty. There is little wonder that hundreds of thousands annually visit intercollegiate contests that they may witness the highest type of exemplification of the factors that make for a man.

The Ohio Stadium and environs, continuously being improved, furnish the setting for our intercollegiate contests, and, while facilities for swimming and indoor activities are still lacking, Varsity contestants in the main are well cared for.

Ohio State Varsity teams, during the school year just ended, achieved a mark of .756 in 89 intercollegiate contests. From the point of games won and lost, the year was one of the most successful in the history of the University.

In Western Conference competition alone, Varsity teams did almost as well, winning 35, losing 17, and tying 2 contests for a grand average of .673. Rather strangely, they did better in major sport competition in the Western Conference than in minor games.



In football, basketball, baseball, track, and cross country, they were victorious on 23 occasions, lost 9 contests, and twice were tied. In tennis, golf, wrestling, gymnastics, fencing, and rifle shooting in the Western Conference, they won 12 contests and lost 8.

Although only one Ohio State team won an undisputed Western Conference title, the showing in all but one or two of the other sports was highly satisfactory. The lone team to win a championship was the basketball squad, the first such Ohio State team ever to achieve this feat.

Several other teams, however, were in the running all the way for titles in their sports. The baseball team led the league until the closing days of the season, when it faltered and lost three of the last five games and ended in third place. The track team, the strongest in Ohio State history, was third in the Western Conference championships—only a half point back of Wisconsin in second place—and was among the leaders in the National Collegiate Meet.

Although a minor sport squad, the rifle team was unbeaten in 10 matches against teams representing all parts of the country east of the Rockies, a record to be proud of in any sport. The wrestling team lost only one of seven dual matches, while the tennis squad dropped only 2 of its 10 matches.

Including all regularly scheduled dual contests, Ohio State teams won 65, lost 21, and tied 3. As if to show all-round strength, they achieved a mark in major sports practically the same as that in minor athletics. In major sports, they won 36, lost 12, and tied 3. In minor engagements, they were victorious on 29 occasions, and were defeated 9 times.

The major sport rating against Western Conference teams showed 23 victories, 9 defeats, and 2 ties, for a percentage of .719. In minor sports, it was 12 wins, 8 losses, and a percentage of .600.

Against non-Western Conference teams, Ohio State's percentage was .882. The teams won 30 contests, lost 4, and tied 1. The defeats were at the hands of Princeton in basketball, Wooster in baseball, Ohio Wesleyan in track, and Ohio Wesleyan in gymnastics.

Of some 500 candidates for Ohio State Varsity teams during the school year 1924-1925, only 97 succeeded in winning the coveted Varsity "O." Sixty-one letters were granted in the major sports, and 36 in the minor teams.

These figures, in the belief of Ohio State athletic officials, shed some light on the perennial query of what becomes of the "good" high school player who vanishes when he gets to college. The answer is that he is forced to compete with a dozen others as good, if not better than he, and only a few rise to the top as embodied in the award of the Varsity letter. One hundred twenty-six Varsity insignia, in all, were awarded for the 11 Varsity teams, a check of the year's awards shows. These included 17 "OAA's" and a dozen manager's letters.

Football, as usual, headed the list with 24 "O's" and 5 "OAA's." Letters were granted to three football managers. Although the track team was the best in Ohio State's history, the number of letters granted in this sport was smaller than usual. Track, however, was second, with 13 letters and 4 "OAA's." Baseball yielded 12 "O's" and no "OAA's."

In the minor sports, letters were granted as follows: Wrestling, 7 "O's" and 5 "OAA's"; rifle shooting, 8 "O's"; tennis, 6 "O's" and 1 "OAA"; gymnastics, 6 "O's"; fencing, 5 "O's"; and golf, 4 "O's."

Gross athletic receipts during the 1924-1925 school year totaled \$421,860.30, and the net profits were \$197,788.44. Football, as usual, yielded the largest gross revenue, the receipts being \$327,768.60.

Expenses of the football season, largely the share of visiting teams in games here, were \$165,865.16. Six at-home games yielded \$282,567.30, while the Illinois and Iowa games, played at Iowa City, Iowa, and Urbana, Illinois netted \$35,720.95.

Football and basketball were the only two Varsity sports to pay their own way. A net profit of \$6,773.19 was earned in basketball.

Following is the complete report on the year's finances as compiled by R. M. Royer, treasurer:

Cash Balance, July 1, 1924.....	\$ 4,840.72
Vouchers cancelled	
No. 12269     \$17.50	
No. 14294     6.00 .....	23.50
Receipts:	
Athletic Contests.....	\$354,165.81
Notes .....	58,500.00
Stadium Subscriptions .....	8,142.55
Student Books .....	54,632.00
Sale Supplies .....	412.96

## THE OHIO STATE UNIVERSITY

Interest .....	908.64	
Concessions .....	3,072.11	
Coliseum .....	114.50	
Refunds:		
Dorothy Sumption .....	411.73	480,360.30
		<hr/>
		485,224.52
Expenditures:		
Salaries .....	\$ 58,686.43	
Operating Expense .....	47,204.44	
Equipment, General .....	1,526.02	
Athletic Contests .....	210,068.03	
Coliseum .....	5,449.75	
Intramural .....	7,242.67	
Interest .....	28,943.99	
Notes .....	100,500.00	
Permanent Improvements .....	13,890.78	
Dorothy Sumption .....	677.73	474,129.84
		<hr/>
Balance June 30, 1925.....		\$ 11,094.68
Receipts	<i>Football</i>	
At home .....	\$282,567.30	
Abroad .....	35,720.95	
Program.....	9,431.00	
Refunds .....	49.35	
		<hr/>
		\$327,768.60
Expenditures .....		165,866.16
		<hr/>
Profit .....		\$161,902.44
Receipts	<i>Basketball</i>	
At home .....	\$ 18,898.50	
Abroad .....	263.53	
Refunds .....	40.52	
		<hr/>
		\$ 19,202.55
Expenditures .....		12,429.36
		<hr/>
Profit .....		\$ 6,773.19
Receipts	<i>Baseball</i>	
At home .....	\$ 1,281.80	
Abroad .....	1,648.38	
Refunds .....	9.94	
		<hr/>
		\$ 2,940.12
Expenditures .....		11,940.95
		<hr/>
Loss .....		\$ 9,000.83
Receipts	<i>Track</i>	
At home .....	\$ 168.25	
Abroad .....	315.43	
Ohio relays .....	1,334.48	
Refunds .....	17.59	
		<hr/>
		\$ 1,835.75
Expenditures .....		14,335.81
		<hr/>
Loss .....		\$ 12,500.06
	<i>Tennis</i>	
Receipts .....		\$ 2,327.09
Expenditures .....		1,131.03
		<hr/>
Profit .....		\$ 1,196.06



## ANNUAL REPORT

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*Wrestling*

Receipts .....	\$ 83.45
Expenditures .....	2,258.39
Loss .....	\$ 2,174.94

*Gymnastics*

Receipts .....	\$ 8.25
Expenditures .....	1,504.67
Loss .....	\$ 1,496.42

*Golf*

Receipts .....	.....
Expenditures .....	\$ 601.68
Loss .....	\$ 601.68

*Coliseum*

Receipts .....	\$ 114.50
Expenditures .....	5,449.75
Loss .....	\$ 5,335.25

*Dorothy Sumption Account*

Athletic Board advance of salary, April to August, inclusive....	\$ 677.73
Refunded—Salary checks, April, May, June.....	411.73
Balance due from Miss Sumpton.....	\$ 266.00

*Notes*

## Outstanding July 1, 1924:

Huntington National Bank .....	\$217,000.00
Ohio National Bank .....	100,000.00
Columbus National Bank .....	50,000.00
Commercial National Bank .....	15,000.00
City National Bank .....	60,000.00
National Bank of Commerce .....	40,000.00

## Borrowed during the year:

## Short-time notes:

Huntington National Bank .....	5,000.00
City National Bank .....	3,500.00
Citizens Trust & Savings Bank—to take up note at Columbus National .....	50,000.00
	<hr/> \$540,500.00

## Paid during year:

Columbus National Bank .....	\$ 50,000.00
Commercial National Bank .....	15,000.00
Ohio National Bank .....	10,000.00
Huntington National Bank .....	22,000.00
City National Bank .....	3,500.00
	<hr/> \$100,500.00
	<hr/> \$440,000.00

## Notes Outstanding July 1, 1925:

Huntington National Bank .....	\$200,000.00
Ohio National Bank .....	90,000.00
City National Bank .....	60,000.00
National Bank of Commerce .....	40,000.00
Citizens Trust & Savings Bank.....	50,000.00

All notes at 6 per cent interest.

## THE OHIO STATE UNIVERSITY

## BANK STATEMENT

## Huntington National Bank:

Bank balance .....	\$6,970.98	
Checks outstanding:		
No. 15450 .....	\$ 3.70	
No. 15456 .....	449.50	
No. 15464 .....	764.53	
No. 13000 .....	2.00	
No. 13800 .....	1.95	
No. 13840 .....	6.22	
	<hr/>	1,227.90
		<hr/> \$ 5,743.08

## Citizens Trust &amp; Savings Bank:

Bank balance .....	\$3,036.04	
Checks outstanding:		
No. 14232 .....	\$ 11.25	
No. 15374 .....	35.58	
No. 15415 .....	185.14	
No. 15435 .....	387.50	
No. 15440 .....	30.00	
No. 15453 .....	15.00	
No. 15460 .....	10.80	
No. 15461 .....	14.63	
No. 15463 .....	250.00	
No. 15465 .....	3.80	
No. 15466 .....	140.53	
	<hr/>	1,084.23
		<hr/> 1,951.81

## City National Bank:

Bank balance .....	\$2,172.92	
Checks outstanding:		
No. 13706 .....	\$125.00	
No. 15467 .....	367.40	
No. 15382 .....	32.35	
	<hr/>	524.75
		<hr/> 1,648.17

## National Bank of Commerce:

Bank balance .....	\$2,116.71	
Checks outstanding:		
No. 13994 .....	\$ 1.40	
No. 15346 .....	20.00	
No. 15381 .....	39.60	
No. 15399 .....	17.80	
No. 15445 .....	620.29	
	<hr/>	699.09
		<hr/> 1,417.62

Cash on hand—Guarantees received too late to bank June 30.....	334.00
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\$10,094.68

Total receipts for year.....	\$480,360.30
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## Deposited in banks:

Huntington National Bank .....	\$203,663.19	
University Bank .....	167,906.15	
City National Bank .....	83,474.16	
National Bank of Commerce .....	24,982.80	
Cash on hand .....	334.00	
	<hr/>	480,360.30



## ANNUAL REPORT

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Total receipts .....	\$480,360.30	
Balance July 1, 1924 .....	4,840.72	
Vouchers cancelled:		
No. 12269 .....	17.50	
No. 14294 .....	6.00	
		495,224.52
Expenditures .....		474,129.84
Balance .....		\$ 11,094.68
Balances July 1, 1925:		
Huntington National Bank .....	\$ 5,743.08	
University Bank .....	1,951.81	
City National Bank .....	1,648.17	
National Bank of Commerce .....	1,417.62	
Cash on hand .....	334.00	
		\$ 11,094.68

## Profit and Loss

Loss on baseball.....	\$ 9,000.83	Profit on football.....	\$161,902.44
Loss on track.....	12,500.06	Profit on basketball.....	6,773.19
Loss on wrestling.....	2,174.94	Profit on tennis.....	1,196.06
Loss on gymnastics.....	1,496.42	Student books .....	54,632.00
Loss on golf.....	601.66	Sale Material .....	412.96
Loss on Coliseum.....	5,335.25	Interest .....	908.64
Profit .....	197,788.24	Concessions .....	3,072.11
	\$228,897.40		\$228,897.40
Salaries .....	\$ 58,686.43	Profit .....	\$197,788.24
Operating .....	47,204.44	Balance June 30, 1924.....	4,840.72
Equipment—General .....	1,526.02	Notes .....	58,500.00
Intramural .....	7,242.67	Stadium subscriptions .....	8,142.55
Interest .....	28,943.99	Cancelled vouchers .....	23.50
Notes .....	100,500.00		
Permanent improvements .....	13,830.78		
Balance due account			
Dorothy Sumption .....	266.00		
Balance June 30, 1925.....	11,094.68		
	269,295.01		269,295.01

## Bonds and Stocks on hand:

1—Third Liberty Loan.....	\$100.00
1—Registered No. 343117.....	100.00
1—Registered No. 343118.....	100.00
1—Registered No. 31501.....	50.00
1 share preferred stock—Mordue Collieries Company.....	100.00

## NEWS BUREAU

JAMES E. POLLARD, Editor

An increasing disposition on the part of responsible University authorities, both administrative and otherwise, has featured the operation of the University News Bureau during the year 1924-1925. A number of factors have combined to contribute to this end.

The one thing more than any other, perhaps, which speeded up this tendency—highly to be desired—was the unfortunate incident during the early winter of the mysterious poisoning of a number of students, resulting in the death of two and the well-nigh fatal illness of others. The News Bureau, at this time, was of real service, judging between results obtained, both to the University and to the newspapers at large. University officials wisely laid all their facts at the disposal of responsible officials and showed by their willingness to do everything possible to help clear up the horrible affair that they had nothing to conceal. The confidence resulting

from this attitude has been reflected in an increasing willingness on the part of the newspapers and the press associations to let the University tell its own story in its own way.

It is significant that while the Department of Athletics again bore almost the entire expense of the operation of the Bureau, the number of stories of general University interest was three times that of those pertaining to athletics. The appended table shows that for 372 stories concerning athletics, 1,035 were prepared and sent out relative to general University interests. The satisfying tendency in this respect is to increase the service to the University at large.

The Editor of the News Service is again grateful for the continued interest and support—manifested in numerous ways—of Athletic Director L. W. St. John, for the increasing interest in the work of the Bureau and the example set in making use of its facilities by the University Business Manager, Mr. Carl E. Steeb, and for the continued cordial cooperation and counsel of the Alumni Secretary, Mr. J. L. Morrill, and Professor J. S. Myers, of the Department of Journalism, and others. The faith of these, and other University officials and Faculty members in the work and opportunities of the News Service, has contributed largely to whatever measure of success it has attained.

A statement of the distribution of the work of the Bureau follows:

*General University News*

Subject	No. of General Stories	No. of Special Stories	Total
Stadium .....	7	1	8
Commencement .....	14	396	412
Registration .....	10	334	344
College of Education.....	6	29	35
Faculty .....	13	13	26
Honorary fraternities and other honors....	14	32	..
Students and student body.....	11	..	11
Alumni .....	5	5	10
President Thompson .....	..	8	8
Agricultural College .....	8	10	18
Commerce and Journalism.....	1	5	6
Physical Education .....	3	..	3
University Day .....	4	..	4
Engineering .....	1	..	1
Dramatics, debating .....	2	..	2
Y. M., C. A. ....	3	..	3
Traditions .....	2	..	2
College of Medicine.....	..	..	..
Graduate School .....	1	..	1
Radio Station .....	3	4	7
Miscellaneous .....	..	..	..
Poison probe .....	..	15	15
Miscellaneous .....	49	26	75
Total .....	157	878	1035

*Athletic News*

Subject	No. of General Stories	No. of Special Stories	Total
Football .....	68	11	79
Basketball .....	35	17	52
Baseball .....	47	27	74
Track .....	26	26	52
Ohio Relays .....	22	14	36
Wrestling .....	6	..	6
Cross Country .....	7	..	7
Intramurals .....	6	..	6
Golf .....	1	..	1
Miscellaneous .....	37	22	59
Total .....	255	117	372

Grand total .....

1407



<i>Photographs</i>	
Sports .....	920
General University .....	75
Total .....	995

## ALUMNI RECORDER AND DIRECTOR OF TICKET SALES

H. D. TAYLOR

As Alumni Recorder I beg to submit the following, a report of the activities and work of my office for the year 1924-1925. Appointed by the Board of Trustees under the title of Alumni Recorder and empowered by the Athletic Board to handle the sale and distribution of athletic tickets it has been my duty to act in a dual capacity, namely, that of keeping the address records of alumni and former students and of building and operating a system of ticket sale in compliance with contracts made with alumni and others not connected with the University, both of whom contributed to the building of the Ohio Stadium.

With your permission, I shall take up the work of the ticket manager, if I may term it that, in the first division of this report and make the second section a resume of work done and recommendations for the future in regard to keeping of the records of alumni and former students.

From this office notices were sent to all Stadium subscribers, all alumni and ex-students, and in addition to all people who purchased tickets for any or all football games played by Ohio State in the season of 1923. Furthermore, a different advice sheet was sent to all present members of the student, faculty, and administrative bodies explaining new "wrinkles" for the season of 1924-1925, telling how, when, and where season books and single game reservations could be had. In all, more than 50,000 pieces of such mail were sent from this office. The postage cost alone amounted to more than \$1200 and the additional clerical force necessary brought the total expense of this mail to approximately \$2000. I shall refer to this mail again when I take up that part of my report which deals with the work of the Alumni Recorder, as a keeper of the address records of alumni.

The following facts will serve to show the enormity of the detail that must be completed in the ticket office. For the season just closed (1924) we have received 14,876 applications for tickets—by that I mean we have a record and index file totaling that many cards. Each card has room on it for orders for the five home games and a compilation of individual game orders shows the total of 26,517. The index contains 14,876 cards, but the record clerk making the daily detail sheet has made 26,517 entries plus the names and numbers of the total number of applications. The cashier has balanced on 26,517 counts and the filling teams, consisting ordinarily of four men, have read, selected and "stuffed" 26,517 sets of tickets. In addition to the above mail orders 7774 student and faculty books were sold directly over our cash counter during the first week of school.

The total receipts of the Athletic Department for the year ending in June, 1925, were approximately \$454,000.00 and \$379,000.00 of this amount passed through this office. Our peak day of mail and counter orders totaled a little more than \$20,000.00, \$16,000.00 in round figures being receipts from the sale of 2000 student and faculty season ticket books and the balance of \$4000.00 representing mail orders. Our biggest day at the Stadium for any one game was \$21,195.50, being for tickets sold between 12:30 p. m. and 2:30 p. m. I mention these figures simply to show that this is not an idle spot and that with temporary help required in such a short intensive campaign, it is very vital that the person in charge must devote an unusual amount of personal attention to detail to see that his house is in order at all times.

The Stadium and the handling of the crowds that come to all athletic events is another of the duties of this office, as well as the sale and distribution of tickets for all contests. A capacity crowd at the Stadium means a force of approximately 1600 ushers, attendants, police, ticket sellers, and ticket takers. Due to the sell-out for the Michigan game last fall, it was necessary to have 850 Boy Scouts, 150 students to assist in directing people to their proper locations, 100 guards, "borrowed" from the Army Post, 100 police, 75 men to take tickets at the entrance gates, and 80 student assistants for the temporary seats erected the week of the game to handle the throng in a satisfactory manner and incidentally in a manner which has brought many words of commendation to various members of the Athletic Department. That is extraordinary, but the regular force at the Stadium, one capable of caring for a crowd of 25,000 to 35,000 will mount close to 1000 in numbers.

Basketball at the Coliseum must be taken care of, baseball in the spring and a varied assortment of wrestling matches, track meets, gymnastic contests, and tennis matches falls within the scope of the watchfulness of this office.

For the past year the actual figures of attendance at all athletic contests ran pretty close to 275,000. A short resume of this sort does not convey properly what has to be done in the way of arrangements but does give something of the advance thought and attempt at systematization necessary to prepare for such crowds.

It is a pleasure to acknowledge the wonderful help given me by all members of the department in the way of advice as well as in actual labor. I want to mention especially V. R. Billingsley, John Pryor, G. M. Trautman, and R. M. Royer, whose business advice is sound and comforting and whose willingness to be of physical aid is apparently infinite. To Mr. Fred Jones and Chester McClintock, I am also deeply indebted for their supervision of the ushering plan on the west and east sides, respectively, of the Stadium.

#### REPORT OF RECORDS OF ALUMNI

This office was established in June, 1922, by appointment of the undersigned as Recorder by the Board of Trustees. No assistance by way of funds for carrying on the work of the office or supply of clerical help was provided for at that time and although requests have been made for such, up to date nothing has been furnished. The only source of help either by way of finance or clerical assistance has been through the generosity of the Athletic Department, this department having supplied one full-time stenographer and having assumed such bills for postage and supplies as requested by the Recorder.

Practically the only way to follow up a list of addresses scattered over as wide territory as the Alumni of this University cover, lies in an occasional first-class mail canvass of the list in order to secure from the post office all letters not delivered from want of proper direction. The only first-class mail going to all graduates and former students is, to the best of my knowledge, the football information pamphlet. This comes at a time when no one from the clerical force of this office can take up returned mail as it is returned and start a campaign against the incorrect addresses. There should be a full-time assistant who could take this mail as it is returned and begin immediately to correct wrong addresses, if the addresses of the alumni are of any value to the University. In such time as has been available this office has kept up changes in addresses secured from football application cards, the Alumni Monthly Magazine and such other sources as have been of quick access. But, no funds or help has been provided for a systematic drive to establish the list against all peradventure and what is more serious, no funds or help to keep a constant tab on changes from such sources as fraternity lists, possible lists in the possession of the secretaries of the various colleges on the campus, communication with members of the same graduating classes or people in the same towns or cities to which the last mail was delivered, etc.

If the University places any value on who, what, and where the alumni are, some steps should be taken very shortly to place this file in the proper condition.

This file should consist of at least three distinct divisions, viz:

1. An alphabetical card index of all graduates with names, years, degree, business, and best address.

2. A card file arranged by years of graduation, and subdivided alphabetically in this file, with year, degree, and address.

3. A stencil address file arranged geographically. The Athletic Department has supplied this office with an Elliot Addresspress equipment and several cabinets for the purpose of filing these stencils. More cabinets are needed and stencils should be made for every card in the files. We already have more than 12,500 stencils in use.

Other schools have gone much further than the above suggestions and have provided means and equipment for keeping records of all worthy accomplishments made after alumni have left college atmosphere. Some day we shall possibly wish this condition, but I am requesting only what I consider absolutely necessary for the preservation of a valuable nucleus.

What do we need to make this office function properly?

First, an appropriation of \$5,000.00 for operating expenses, and \$2,500.00 for equipment. The equipment needed is an adequate, standard, and easily enlarged, filing system.

Second, two full time assistants for a period of at least a year to straighten out present files and to make a concerted drive on "lost" or bad addresses. After these files are once in tip top shape, and without adding anything to the above conception of what they ought to be, I believe one good conscientious assistant would be able to keep things in order, given such occasional extra help as this department would willingly supply at times of rush or unusual activity.

Finally, Mr. J. L. Morrill, the Secretary of the Ohio State University Alumni Association, has a card file of Alumni and Mr. Hardy, in the University Mailing Department, has a mailing stencil collection of alumni and addresses; several of the different college secretaries maintain a list of graduates of their respective colleges and practically all of the fraternities and sororities



have up-to-date lists of their members, all of whom are Ohio State men and women. With sufficient office personnel, cooperation of all these separate units could well be effected and a central place where all addresses are kept could be maintained with mutual benefit to all concerned. I am not recommending that this office be that central place, but I am recommending the establishment of such a center in the spirit of helpfulness to the many and economy of administration. I do feel that the present lists in my office could be made the nucleus, and with the completion of the plans as suggested would form an ideal clearing house for all such information and records. Whether I be retained as such officer is of no moment, but if these names and addresses are of any value to the University, economy and foresight demand that something be done soon to preserve them.

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## ANNUAL REPORT OF THE SECRETARIES TO THE BOARD OF ADVISORS OF OHIO STATE UNIVERSITY Y. M. C. A.

June 1, 1925.

It is the function of such a report as this to give concisely the details of the program of the past year. Restraining a natural desire to enlarge upon some features which would illustrate particular emphasis of our policy, we shall give only the outline upon which your knowledge and imagination must complete the picture.

Shortly after the last annual report this association suffered a great loss in the death of Professor F. W. Ives. He was then Chairman of our Board and we have greatly missed his kindly interest and quiet fellowship. July fifteenth, Mr. Dalton began his work with us. Coming into a strange situation, he has adapted himself very well and we have found that his fresh viewpoint has aided us greatly.

During the summer of 1924 we carried on the usual program, including the room and employment service. In connection with this Mr. Dalton made his room survey where he personally inspected 987 rooms in 476 homes. Six trips to points of interest in the city and suburbs were arranged for summer quarter students. These were greatly appreciated. Your Secretary spent two weeks at Camp Perry during August as Executive Secretary of the Army Y. M. C. A. there. Twelve hundred letters of welcome to incoming freshmen were sent out at this time.

The Fall Quarter found Charles O. Guy and Ralph L. Peters beginning their work with the Sophomore and Freshman Councils, respectively, each man giving part time to the work. Mr. Guy's effectiveness was lessened through his withdrawal from the University soon after receiving his degree in December. Nevertheless, we were able to select a fine group of men from the Sophomore Council as Cabinet members and early in the year they did good work in aiding the incoming freshmen.

The Freshman Council, under the direction of Mr. Peters, has reached its greatest effectiveness during the past year. With a membership of close to sixty they have most of the leaders of the class in their midst. They have put on, unaided, several campus social events; have developed a fine spirit within the group, and as a climax will send nine of their members to the Lake Geneva Conference this month.

The Friendly Relations Committee has worked in splendid cooperation with the Cosmopolitan Club, the Inter-racial Council, and the International

Student Forum. Visits to foreign students in their rooms and trips to points of interest in Columbus have been features of their program.

The Social Committee has given wholesome and original entertainment to 4500 people during the year. Groups ranged in size from small parties of 25 to huge events like the "Y" Warmer," held in the Gymnasium, with an attendance of 1200.

The Meetings Committee has done a fine piece of work. Headed by the series under Dr. Allyn K. Foster reaching 3750 people in 18 meetings, and four meetings addressed by President Thompson on the first Sunday of the school year, the Day of Prayer for Students, Good Friday, and Mothers' Day, 6800 people have attended these meetings this year. We are fortunate on this campus in the possession of a President whose influence is always directed toward the support of anything that will build up the religious life of his students. On each of these occasions where the President has spoken he has set aside important and inviting opportunities elsewhere in order to comply with our students' request that he meet with them. A feature of the new year will be regular luncheon meetings with a short devotional service every Tuesday noon in Ohio Union. Make the comparison here—4500 in social meetings; 6800 in religious meetings.

Fireside Sessions, as our fraternity discussion groups are now called, went this year on a rotating leadership basis for the first time. Due largely to the promotional efforts of Mr. Dalton, 21 groups met weekly for six weeks with a total attendance of 2323. These groups met in fraternity houses, under the leadership of Faculty men. Topics and leaders were chosen by the men themselves. The response was very favorable and next year will see the number of groups doubled.

The Conference Committee has functioned very well. Delegations ranging from one to 18 men have been sent to the National Council, the Inter-racial Conference, and the Student Volunteer and the State Cabinet Conferences. Twenty men will represent us at Lake Geneva, the largest delegation we have ever had.

Nine out-of-town trips have been made by our Gospel Teams, as well as several local engagements. These teams work chiefly with boys from six to 16 years of age in rural communities. Fifteen men were used on this committee, and the entire credit for their success is due to the Chairman, Kenneth Smoke.

Our Membership Committee put on a campaign which could only be graded as fair. Our membership of approximately 1000 is 400 under that of last year. With a change of leadership there, and plans now being made, we hope to bring up our total this fall. This will be our point of greatest emphasis in the new year.

The Social Service Committee has had a rather limited sphere of usefulness during the past year, concentrating its work chiefly at St. Paul's Community House. The new chairman is a graduate student, who is to be one of our three representatives at the New York Social Service Groups this summer. We are very much pleased to have three of our men selected for this group. With a background of practical work, such as they are sure to get, we anticipate the most intelligently directed Social Service program we have ever had.

The Visitation Committee has visited sick students in the hospitals and in their rooms. The mere statement means little, but the men visited are deeply



appreciative. Four hundred thirty-four upperclassmen were used as advisers to freshmen last year. The present committee is now signing up men for the work of the coming fall.

The Allen Hoskins' Memorial Fund now amounts to \$1608.00 and is constantly being drawn upon by foreign students. The total of employment given to students through our Employment Bureau since September 15 is \$45,974.00. Alumni and parents have contributed \$308.50 and \$339.25, respectively.

The "Y" shields will be awarded for the first time at Commencement this year to three seniors selected by the Cabinet as "best representative of the ideals for which the University Y. M. C. A. stands." Anthony Fiorette, Albert Segal, and Lawrence Snyder are the men thus honored.

It is difficult to make within the confines of such a report as this a satisfactory long distance view of the year's activities, but the foregoing may serve to give some idea of what has been done the past year.

We have had splendid cooperation from all members of the University community when we have called upon them. A fine spirit of tolerance and respect for the rights of others holding opposite views and opinions on basic questions is a feature of this University. In cooperation with the University Churches Association we have planned the outstanding features of our work. Your Secretary is President of this group for the coming year.

The association occupies a strategic position and, with the help of Him whom we serve and honor, must not only consolidate that position, but must move on into the fields immediately ahead.

Respectfully submitted,

J. A. PARK, *Secretary.*

## THE BOOST OHIO COMMITTEE SECRETARY'S ANNUAL REPORT

A committee so cosmopolitan in its composition, and whose activities are of such general scope as the Boost Ohio Committee should be better known, and the record of its actions and purposes be made available in print. Therefore, the annual report of that committee is also published herewith.

The school year of 1924-1925 has been one in which the Boost Ohio Committee has expanded to a greater degree than ever before. Not only have the activities of former years expanded, but there has been a considerable extension of the activities and functions of the committee.

In summing up the work of the committee two rather clearcut divisions suggest themselves. The first is the promotion and support of campus events, and the second is directed toward interesting the better type of high school students in what Ohio State University has to offer. It is significant that the committee holds its place on the campus mainly through the fulfilling of the first of these duties.

From the start of the Fall Quarter the committee was kept busy throughout the entire year. Scoreboard parties were held when the team was at Iowa and Illinois. The Iowa party was more than successful, not only from the standpoint of being pleasant to the spectators, but also in a financial way. The Illinois party was a trifle disappointing, due to the fact that so many of the students went with the team to the game. The scoreboard put into operation a few years ago has more than paid for itself, and while it will continue to render a great service to those interested in following the team, it will also be a source of considerable revenue in the future.

It was possible to send the band with the team to Illinois only through collections taken up at previous games under the direction of the Boost Ohio Committee. Dad's Day was held in connection with the Iowa game, but the smoker program held for the dads after the game was discontinued. This was done because individual groups have taken upon themselves to entertain their own dads, which detracts from any other University program.

Perhaps in no other year in the history of the school was there so much made of homecoming. It was so well planned and organized that the celebration was carried through to a huge success. The Fog-Raiser was held the night before the celebration and the Michigan homecoming game. It, too, was a big success, but the sum realized from it was not as great as that of previous years. It is thought best by the Fog-Raiser Executive Committee to change the type of entertainment next fall because the campus itself has grown tired of the old type of entertainment, although it is given mainly for the benefit of the alumni returning for homecoming. The Executive Committee has been functioning since the first of January and have their plans nearly completed for next fall. Along the lines of new endeavor a new tradition was started at this time. It was sponsored by the senior class and known as the Children's Frolic.

The Harley trophy was awarded to South High School of Columbus, being the winner of the Columbus City High School Football Tournament. The trophy has gained in popularity and is being sought by every high school in the city.

The Appreciation Dinner given to the basketball squad was continued. Due to the fact that the committee wanted to establish the dinner as an annual affair, the Alumni Varsity "O" Association cooperated with them and helped make the dinner a greater success than ever carried on before. At that time a chest of silver was presented to Johnny Miner from the Alumni Varsity "O" and the student body. The committee was given charge of raising the money for the chest on the campus. The committee has decided to award a Johnny Miner Trophy to the winner of the State Basketball Tournament. The trophy is not yet completed but plans are now under way to establish this trophy as the only one given to the championship basketball team. The trophy is given for the dual purpose of making closer the friendships between the University and the high schools of the state and of commemorating the name of the greatest basketball player that has ever graduated from this University.

The Boost Ohio Committee took over complete charge of the Scholarship Day exercises. Last year, the first year that such a program was carried on here, the committee played only a minor part and being only responsible for the original idea. This year, however, all the details were worked out in the committee instead of in the societies themselves. This was done to establish the exercises on a more unified basis.

The Spring Tradition night originated in the committee the past year, and it is hoped that it will be carried on next year for the purpose of setting aside one night in the spring



for the customary traditions to take place. Further, this congregation of students at one time and place will help to create a more friendly spirit among them.

From the very beginning the Boost Ohio Committee has been an organization for cooperation. Possibly the most outstanding instance of this may be seen in that excellent spirit that exists between it and the Alumni Association. The Fog-Raiser was mentioned before. The group cooperates with the Alumni Association on Ohio State Day and on University Day. The Boost Ohio pennants and other decorations in addition to being put to use on the campus are used extensively at alumni gatherings throughout the country. The same is true of the Boost Ohio film. The committee feels, however, that it received more by this cooperation than it has given, for the Alumni Association furnishes a necessary connecting link in the work among the high school students. It further affords a personal touch which has become almost essential to this particular line of work. This was especially true last summer when the majority of the work among prospective students was done by the alumni.

The Boost Ohio Committee again cooperated with the Ohio High School Athletic Association at the time of the State Basketball Tournament and also the Interscholastic Track meet. This year 16 teams were housed and entertained at that time. The Interscholastic Track meet recently held afforded another opportunity for cooperation with this organization. Nearly seven hundred men were housed and entertained during the meet. Over 500 tickets were given out for the May Supper for the entertainment of these men. At each time the high school men were here such entertainment was provided that would show them some of the characteristics of college life, and such information that was given to them for the promotion of higher education and interesting them in Ohio State.

Cooperation with the Athletic Department, with the Y. M. C. A., and with the Publicity Bureau and other instances of our lending and receiving aid. But the cooperation with other student groups has been more in evidence than ever before; with the Men's and Women's Student Councils, the Ohio Union Board, the Women's Athletic Association, and Woman's Ohio in the main. The committee has endeavored to lend aid and assist those groups and organizations that need and merit assistance. The first Journalistic High School Convention was held here during the past year. The committee assisted the Journalism Department in housing some 300 editors and also provided for some of the entertainment at the banquet given in their honor.

The expansion of propaganda work has kept pace again with the expansion in campus activity. While possibly not as much material in the form of literature has been sent each man as last year, more attention has been paid to such forms of appeal as personal letters and personal interviews. This work is, however, declining in importance because of the fine cooperation which the alumni are giving in the various cities throughout the state. Many men have been entertained by the committee while they were visiting the University. It has been estimated that nearly 75 per cent of the men on our files during 1923-1924 are attending the University at the present time. During the past year only one drive was conducted instead of two as in previous years. The committee has made a splendid effort to get men interested not only with athletic tendencies but also those men who have been outstanding in scholarship and leadership. By this means an attempt was made to interest all types of students who would be a credit to the University.

Work with high school men is often discouraging in that it is difficult to see any productive result. In only the field of athletics is it at all possible to check up on the records of the prospects. It is therefore encouraging to find out that of all the freshmen stars developed to date a large per cent were at one time given attention by the Boost Ohio Committee.

The Boost Ohio film, as has been stated before, has been of great service in many respects. A new film was made during the late spring and summer and so great a demand was created that many of the high schools had to be turned down. For a period of four months the film was continually on the road. It has been shown so much during the past year that the committee has arrangements under way for revamping it. It is one of the best means the Boost Ohio Committee has in the promotion of higher education.

The booklet of views of the campus and general information pertaining to the University was not published this year because of the number that were left from last year. It is hereby recommended that such a book be published by the committee during the next year.

The financial condition of the committee is the best that it has ever been, as the treasurer's report will verify. However, the committee will in the future find some University project well worthy of help which will soon eat up our small surplus. The mere fact that we are now out of debt is no reason why we should not seek additional sources of revenue with which to further our work and some other University projects worthily as in the past.

If this committee should continue along lines of expansion of present duties and functions, it will be forever a worthy institution on the campus. Already there is an indication that an extension will take place next year. Many new ideas and projects have already been

submitted for consideration. The group should thus continue to hold its place among the leaders of campus affairs.

The very existence of the committee depends upon the efforts of individual members composing it. Some have fulfilled all their duties faithfully while others have been inclined to "pass the buck." Membership has come to be considered an honor among the students, but it is not an honor which when achieved permits one to withdraw from active service to the University. If any new members have that idea, now is the time to get over it before active operations for the ensuing year commence. Indications are that we shall have an unusually strong personnel and next year should be one of the best in the history of the Boost Ohio Committee.

Respectfully submitted,

LESTER H. BOHM, *Secretary.*

## REPORT OF THE WOMEN'S COUNCIL OF THE WOMEN'S SELF-GOVERNMENT ASSOCIATION

Because of the place of student government in a University the annual report of the Women's Self-government Association is herewith published:

President W. O. THOMPSON, *The Ohio State University:*

DEAR SIR—I beg leave to submit a summary of the various activities directed by the Women's Council, the executive body of the Women's Self-government Association, for the year 1924-1925.

### I HOUSE ORGANIZATION

One of the chief expressions of student self-government lies in the organization of the dormitories, rooming houses, and sorority houses and the rules and regulations thereof. In cooperation with the Dean of Women and her assistants and with the Association of Householders, the Council organized and supervised, during 1924-1925, 52 rooming houses, which were occupied by 400 young women; three dormitories, in which were lodged 220 women students; two church halls, in which were housed 64 women students; 23 sorority houses, which were occupied by 250 young women students. Seventy-five women students came under this supervision, who were classified as out-of-town students yet were permitted to live with relatives or friends in Columbus; or, who were listed as out-of-town students but who earned their board and lodging in Columbus homes. One thousand and twenty-four women students were included within the organization.

This year an improved system of house records was installed by the vice-president of the Council, who acted as the chairman of House Presidents. The records provide a means for checking on the observance of house rules by each member. A system of cards was used which showed the hour of return and where each young woman was when she attended social functions or was away over night. These cards were approved by those in charge of the house before they were filed in the Council office. A copy of the weekly record card accompanies this report.

Council offered a silver cup to the house which had the best record for the observance of rules, the winning house to hold the trophy for a period of one month. Keen competition among the houses resulted. Sigma Delta Tau House was the only one to win the cup three times, thereby earning the right to have the name of the organization engraved on the trophy.

Through individual appeal and through cooperation with the Mothers' Club of the University an attempt was made to institute planned daily schedules for town girls, similar to those followed by the organized out-of-town girls. Improved health and scholarship in numerous cases seems to have resulted from this attempt.

### II ORGANIZATION OF FRESHMAN WOMEN

Early in the school year the Council helped make it possible for Chimes to meet and entertain the freshmen women; supervised the organization of the freshmen, the election of their representatives on the Council, of their class officers, and helped these officers place each freshman girl on some class committee.

### III INITIATION OF THE SUMMER STUDENT COUNCIL

In 1924, for the first time, the W. S. G. A. functioned during the Summer Quarter. As a result students enrolled in the University during the Summer Quarter were given an oppor-



tunity to participate in self-government work and in social activities to a greater degree than they formerly had done.

#### IV THE W. S. G. A. LOAN FUND

The Council facilitates health and scholarship through the extension of loans to those women students, preferably upperclassmen, whose applications meet certain conditions. High scholastic standing, adequate character references, and the amount of financial obligation already incurred, as well as the urgency of the individual need, are major considerations. During 1924-1925 13 students filed petitions for loans from the Women's Self-government Loan Fund. The amounts requested totaled one thousand three hundred and seventy-eight dollars (\$1378.00). The Student Council took the following action: Ten petitions were granted and a total of eight hundred and twenty-eight dollars (\$828.00) was loaned; two petitions, approved and accompanied by the recommendations of the Loan Fund Committee, were referred to other student loan funds; two petitions, investigated and approved, were referred to the Women's Council of 1925-1926, inasmuch as the money would not be required until the ensuing school year. A departure from custom occurred in the Summer Quarter when \$50 was advanced to a man student at his urgent request. The loan was repaid in the Autumn Quarter. The loan fund of the W. S. G. A. is derived from 15 cents set aside from the 25 cents per capita fee collected at the opening of the Autumn Quarter. Members of the W. S. G. A. consider the maintenance of this loan fund as one of the most worth while services of the organization.

A policy of establishing closer connections with other Columbus organizations which maintain student loan funds was instituted during the past year. The committee believes that in this way the various loan funds can be more fully utilized and a greater number of students aided. In pursuance of this policy applicants for loans were referred variously to: the Panhellenic loan fund of the Women's City Panhellenic; the loan fund of the Alumnae Association; the Columbus College Club loan fund of the American Association of University Women; the Robert E. Scott fund; the J. McClain Smith loan fund.

#### V VOCATIONAL GUIDANCE

Vocational information was disseminated this year under the direction of the Vocational Guidance Committee of the Women's Council in conjunction with the Y. W. C. A. The committee secured as the speaker for the Vocational Guidance Conference Miss Florence Jackson, director of the Women's Educational and Industrial Union of Boston and supervisor of Vocational Guidance at Wellesley College. The conference was held on February 25-26. Its purpose was not to find positions for University women, but to give them new horizons and a knowledge of newer fields of activity for women. Miss Jackson talked at freshman lecture in Mack and Oxley Hall dormitories at a meeting of Greater Council (composed of representatives of all women's organizations), and held individual conferences in every spare moment.

The Vocational Committee chairman for 1924-1925 is compiling a bibliography of vocational subjects to be used in cooperation with the University Library. During the next year a series of articles of vocational interest to women will be posted on a special bulletin board in Pomerene Hall.

For some time the women students have felt that a distinct need could be met through the establishment on the campus of a resident vocational consultant. During the past year, considerable time and effort were devoted to this project, but no definite plan has as yet been evolved.

#### VI POINT SYSTEM

The Point System, originally drawn up by the Mortar Board Organization, and administered by the Council, provides for a scale of points to be attached to organization membership and to the holding of office in all student organizations as well as to participation in student activities. This system controls the number of offices one student may hold and induces more individuals to enter campus activities. It assures to each organization members whose interests are concentrated rather than so scattered that they are doing good work in none. It protects the individual from being burdened with more extra-curricular activity than is consonant with either scholarship or health. The Point System Committee is composed of the Dean of Women and the senior and junior members of Women's Council. Each student must present to this committee a statement of the number of points she is carrying. In 1924-1925 the committee received twenty-five petitions in regard to carrying points in excess of the thirty allowed each girl. Five girls were required to reduce their quota of points, while twenty were permitted to carry a temporary excess of points. Each petition was considered in the light of the health and scholastic average of the petitioner. The chairman of the Point System Committee, in her final report to the Council, stated, "This year the committee has observed a decided inclination on the part of all girls active in student organizations to avoid dissipation of energy; to accord

to others increased opportunity for self-expression, executive experience, the winning of honors and service to the University. This has been facilitated in large part, the committee is convinced, by a realization of the value of the Point System and by a growing willingness to observe its restrictions."

#### VII GAB ROOM

The Gab Room, located on the second floor of University Hall, is maintained by the Council for use as a rest room, supply room, and study hall by the women students. Ink and dictionaries are available there.

In addition to proving indispensable for the convenience of several hundred girls each day, the Gab Room provides the Women's Self-government Association with approximately one-third of its income from the sale of such minor personal supplies as are in demand among women students.

Contrary to the expectations of some persons, the erection of Pomerene Hall decidedly has not eliminated the need for our Gab Room. The continued usefulness of the Gab Room is explained by the yearly increasing enrollment of women students and the fact that the Gab Room is located at some distance from Pomerene Hall, serving the needs of girls whose class schedules do not permit the use of Pomerene Hall.

#### VIII SOCIAL ACTIVITIES

An important feature of the activities of the Women's Council are the social affairs. Early in October a party was given for all freshmen women. In November came the Co-ed Supper, to which all women students were invited. The Co-ed Prom, a traditional costume affair and the only social function of its kind given on the campus, was held in April. A tea was given by the Council in honor of the four class advisers, thereby indirectly fostering class spirit.

#### IX MAY FETE

In a class by itself is the May Fete. This year it was presented in Mirror Lake Hollow on May 14. The fete is given every other year and was originated with a three-fold purpose: First, to provide a source of revenue for the Women's Self-government Association Loan Fund, but it has not of late been a source of income (two-thirds of the profits from the fete, when there are such, are contributed to the Loan Fund); second, to give to approximately one hundred girls an opportunity for self-expression, from either executive or dramatic participation in the fete; third, to provide the University with one of its most artistic traditions.

#### X COOPERATION WITH OTHER ORGANIZATIONS

The Women's Council stands ready to assist not only individuals, but every other organization on the campus. As evidence of this desire to cooperate, reference is made to a provision by Women's Council for the fountain pen ink, which all women students can secure free of charge in Pomerene Hall and in the Gab Room, and free ink in the University Library for the use of both men and women students; the donation of \$75 to the Chimes Society to facilitate the Big Sister movement; the contribution of \$25 to Woman's Ohio; the gift of \$35 to the Ohio State University League of Women Voters; the loan of \$50 to the Mortar Board Society; the loan of \$500, at interest, to the Strollers Dramatic Society. Cooperation with other organizations in the following instances is cited: The assistance rendered the League of Women Voters by the Citizenship Committee of the Council; the support given to Men's Council and Boost Ohio on the occasion of football and basketball rallies; the cooperation with the Men's Council in giving dances at Pomerene Hall in an effort to provide inexpensive, approved, social affairs for the entire student body; the coaction with the Men's Council in the drive for contributions to the Student Friendship Fund for the relief of students in such countries as Russia and Czecho-Slovakia; the promotion of the Homecoming Celebration by the Ohio State University Association and the Boost Ohio Committee; the fostering of Traditions Day in which Women's Council acted with the Men's Council, the Women's Athletic Association, the Women's Panhellenic Association, the Interfraternity Council, and the Boost Ohio Committee; and finally, the support given for the upholding of University Day.

The members of the Women's Council consider the tangible achievements far less important than the basic principles which provide the inspiration for the work of the Council and which are expressed in the oath of office: "to maintain the ideals of student self-government; to consider the good of the University and of the women students above personal good; and to be a medium through which the social standard of the University can be kept high."

Respectfully,

WOMEN'S STUDENT COUNCIL,

M. ELIZABETH SPRAGUE, *President.*



# SUMMARY OF THE FINANCIAL STATEMENT

For the Year Ending June 30, 1925.

(A complete detailed financial report for the fiscal year ended June 30, 1925, is printed in separate form and may be had upon application).

Columbus, Ohio, July 15, 1925.

The financial statement presented herein is that part of the Annual Report of the Board of Trustees to the Governor of Ohio, which shows the financial condition of The Ohio State University for the fiscal year ended June 30, 1925.

CARL E. STEEB, *Secretary.*

## CONSOLIDATED STATEMENT

### INCOME AND EXPENDITURES

Description	Items	Total
Cash Balance July 1, 1924.....		\$ 274,356.51
Total Income for Year, <i>Schedule B</i> .....	\$ 6,129,292.46	
Less funds paid to State Treasurer and not available for the University .....	2,181.18	
Total Available Income, <i>Schedule B</i> .....	\$ 6,127,111.28	
Total Expenditures for year, <i>Schedule C</i> .....	6,129,495.77	
Deficit for the year.....		\$ 2,384.49
Cash Balance June 30, 1925, <i>Schedule D</i> .....		\$ 271,972.02

### ASSETS AND LIABILITIES

Current Assets June 30, 1925, <i>Schedules D and F</i> .....	\$ 1,040,822.93	
Investment Assets June 30, 1925, <i>Schedules D and F</i> .....	1,091,689.58	
Educational Plant:		
Value of lands, buildings, and equipment, <i>Schedules D and F</i> .....	12,493,084.40	
Contingent Liabilities June 30, 1925, <i>Schedule F</i> .....		\$ 562,686.37
Investment Liabilities June 30, 1925, <i>Schedule F</i> .....		1,091,689.58
Capital Account June 30, 1925, <i>Schedule F</i> .....		12,971,220.96
	\$14,625,596.91	\$14,625,596.91

### INCOME

Description	Items	Total
INCOME FROM STUDENTS:		
Tuition and incidental fees, <i>Schedule B-1</i> .....	\$ 480,232.00	
Special fees, degrees, etc.....	9,191.00	
Gymnasium locker rent .....	9,602.00	499,025.00
INCOME FROM ENDOWMENTS:		
For general purposes, <i>Schedule G</i> .....	13,045.88	
For designated purposes, <i>Schedule H</i> .....	5,860.27	18,906.15
FEDERAL AID:		
Land-grant Act of July 2, 1862, <i>Schedule G</i> .....	31,450.60	
Land Grant—Virginia Military Lands— <i>Schedule G</i> .....	13,544.68	
Additional Aid—Acts of August 30, 1890, and March 4, 1907..	50,000.00	
Agricultural Extension Work—Acts of May 8, 1914, and July 24, 1919 .....	228,775.06	323,770.34

## STATE AID:

Current Expenses, <i>Schedule I</i> .....	2,367,418.39	
Capital Improvements, <i>Schedule I</i> .....	1,698,057.55	
Agricultural Extension, <i>Schedule I</i> .....	242,861.17	4,308,337.11

## GIFTS FOR CURRENT EXPENSES:

For designated purposes, <i>Schedule B-2</i> .....	13,771.04	13,771.04
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## INCOME FROM OTHER SOURCES:

## Agricultural Extension

Boys' and Girls' Club Work.....	7,630.52	
County Agents' Funds from Counties.....	173,334.16	
Farm Bureau .....	250.00	
Farmers' Institute Funds from Counties.....	15,050.00	196,264.68

## Departmental Earnings

Architecture-Photo .....	1,146.40	
Brace Shop .....	963.50	
Clinic .....	2,468.13	
Dental Clinic .....	10,468.27	
Dispensaries .....	793.50	
Farm Rotary .....	71,710.18	
Lantern .....	14,925.82	
Laundry .....	274.05	
Ohio Biological Survey.....	2.75	
Operation of Gas Retort.....	238.50	
University Hospital .....	29,512.37	
Veterinary Clinic .....	8,184.43	140,687.90

## For designated Purposes

Commutation of Uniforms.....	65,114.53	
Class of 1921—Interest on Gift.....	99.93	
Class of 1923—Interest on Gift.....	217.97	
*Miscellaneous Sales .....	2,042.20	
*Rent .....	132.48	
State Board of Education (Smith-Hughes).....	55,308.36	
Sophomore Book Account .....	92.75	
*Virginia Military Lands.....	6.50	123,014.72

## DORMITORIES AND DINING HALLS:

Home Economics Cafeteria.....	25,851.36	
Residence Halls for Women.....	82,927.53	108,778.89

## COMMERCIAL ACCOUNTS:

University Press .....	64,985.92	
Warehouse .....	331,750.71	396,736.63

Total Income, <i>Schedule A</i> .....		6,129,292.46
Less funds (*) paid to State Treasurer and not available for the University, <i>Schedule A</i> .....		2,181.18
Total Available Income, <i>Schedule A</i> .....		6,127,111.28

## CLASSIFIED EXPENDITURES

EXPENSES:	Description	Items	Total
	Salaries .....	2,777,073.33	
	Boys' and Girls' Club Work.....	7,710.59	
	Coal and gas.....	104,068.08	
	Employes and extra labor.....	142,833.20	
	Feed for livestock.....	26,132.82	
	Field work, Agricultural Extension.....	116,080.95	
	Food supplies .....	28,487.12	
	Freight and cartage.....	13,218.64	



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Incidentals .....	74,851.59	
Laboratory and educational supplies.....	70,191.72	
Materials and general supplies.....	132,047.08	
Printing .....	56,201.80	
Refunds .....	77,402.20	
Repairs to equipment.....	15,770.27	
Scholarships and student aid.....	7,650.96	
Stationery and office supplies.....	51,194.44	
Telephone and telegraph .....	12,222.83	
Traveling expense .....	9,658.85	
Water .....	22,574.85	
<b>Total Expenses, Schedules C-1 and C-2.....</b>		<b>\$ 3,745,371.32</b>
<b>EQUIPMENT:</b>		
Apparatus .....	\$ 59,061.50	
Books .....	59,936.26	
Collections .....	540.13	
Furniture and fixtures.....	102,948.51	
Livestock .....	5,594.05	
Machinery, tools, and appliances.....	18,966.15	
<b>Total Equipment, Schedules C-1 and C-3.....</b>		<b>\$ 247,046.60</b>
LANDS .....	\$ 1,079.07	
NEW BUILDINGS .....	1,190,248.61	
ADDITIONS TO BUILDINGS .....	351,386.44	
IMPROVEMENTS .....	122,421.82	
<b>Total, Schedules C-1 and C-4.....</b>		<b>\$ 1,665,135.94</b>
<b>DORMITORIES AND DINING HALLS:</b>		
Home Economics Cafeteria .....	\$ 23,355.74	
Residence Halls for Women.....	73,097.10	
<b>Total Dormitories and Dining Halls.....</b>		<b>\$ 96,452.84</b>
<b>COMMERCIAL:</b>		
University Press .....	\$ 64,226.96	
Warehouse .....	311,262.11	
<b>Total Commercial .....</b>		<b>\$ 375,489.07</b>
<b>Total Expenditures, Schedules A and C-1.....</b>		<b>\$ 6,129,495.77</b>

## BALANCE SHEET, JUNE 30, 1925

## ASSETS

Description	Items	Total
<b>CURRENT ASSETS:</b>		
Cash in bank and on hand for current expense.....	\$ 271,972.02	
Deposits .....	454.00	
Auditor of State, Special Appropriations.....	562,686.37	
Warehouse (supplies for inventory).....	205,710.54	
		<b>\$ 1,040,822.93</b>
<b>INVESTMENT ASSETS:</b>		
State Treasurer (irreducible debt of the State).....	\$ 1,061,969.07	
Ohio State University Treasurer.....	29,720.51	
		<b>\$ 1,091,689.58</b>
<b>EDUCATIONAL PLANT:</b>		
Lands, Buildings, and Equipment.....		<b>\$12,493,084.40</b>
<b>Total Assets .....</b>		<b>\$14,625,596.91</b>

## LIABILITIES

## CURRENT LIABILITIES:

Special State Appropriations.....	\$ 562,686.37
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## ENDOWMENT FUNDS:

Funds for General Purposes, Invested.....	\$ 967,542.59
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Funds for Special Purposes, Invested.....	\$ 124,146.99
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	\$ 1,091,689.58
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## CAPITAL ACCOUNT:

Capital Account .....	\$12,971,220.96
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Total Liabilities .....	\$14,625,596.91
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## GIFTS FOR GENERAL AND DESIGNATED PURPOSES

The following items are turned into the State Treasury to the credit of Rotary funds for use by the University.

Name and Description	Amount
Class of 1925.....	\$ 2,808.04
A gift for the purchase of a bronze statue of Dr. W. O. Thompson	
Columbus Women's Club Press Department.....	250.00
A gift to establish the Journalism Scholarship Fund for Women	
Commonwealth Fund .....	2,988.00
A gift for expenses in connection with the Bureau of Educational Research	
E. I. du Pont de Nemours Company.....	750.00
A gift for the support of a fellowship in the Department of Chemistry	
Grasselli Chemical Company.....	750.00
A gift for the support of a fellowship in the Department of Chemistry	
International Livestock Association.....	250.00
A gift for the support of a scholarship in the College of Agriculture	
Faith R. Lanman.....	135.00
An amount donated by various individuals for the purchase of equipment for Home Economics Nursery	
Gardner Lattimer .....	1,500.00
A gift to establish a Brace Shop in connection with the College of Medicine	
Ohio Gas and Oil Men's Association.....	600.00
A gift for research work in connection with the gas retort	
Edward Orton, Jr. ....	500.00
A gift for the purchase of books for the Orton Memorial Library	
National Agricultural Limestone Association.....	1,600.00
A gift for the support of a fellowship in the Department of Soils	
State Board of Agriculture.....	250.00
A gift for the support of a scholarship in the College of Agriculture	
Alfred Vivian, Dean.....	1,390.00
An amount donated by various companies for research work in connection with the Swiss Cheese Project	
Total, Schedule B.....	\$13,771.04



## APPENDIX I

### BOARD OF TRUSTEES—1924-1925

	Date Original Appointment	Term Expires
MRS. ALMA W. PATERSON, Columbus.....	March 27, 1924	May 13, 1926
HERBERT S. ATKINSON, Columbus.....	March 17, 1925	May 13, 1927
EGBERT H. MACK, Sandusky.....	December 12, 1922	May 13, 1928
JOHN KAISER, Marietta.....	February 25, 1915	May 13, 1929
*JULIUS F. STONE, Columbus.....	March 17, 1925	May 13, 1930
LAWRENCE E. LAYBOURNE, Springfield.....	May 14, 1921	May 13, 1931
HARRY A. CATON, Coshocton.....	May 14, 1925	May 13, 1932

### MEMBERS WHOSE TERMS HAVE EXPIRED WITHIN THE YEAR

	Date Original Appointment	Term Expired
BENJAMIN F. MCCANN (deceased), Dayton.....	May 13, 1913	November 29, 1924
Succeeded by Herbert S. Atkinson		
CHARLES F. KETTERING, Dayton.....	March 21, 1917	March 17, 1925
Succeeded by Julius F. Stone		
OSCAR E. BRADFUTE, Xenia.....	August 21, 1905	May 13, 1925
Succeeded by Harry A. Caton		

\* Julius F. Stone served also as a member from May 13, 1909, to March 21, 1917.

### OFFICERS OF THE BOARD

LAWRENCE E. LAYBOURNE.....	Chairman
EGBERT H. MACK.....	Vice-Chairman
CARL E. STEEB.....	Secretary and Business Manager
*CHARLES F. KETTERING.....	Treasurer
O. E. BRADFUTE.....	Assistant Treasurer

\* Charles F. Kettering was elected Treasurer of the Board April 4, 1925, to succeed Julius F. Stone.

## APPENDIX II

### ADMINISTRATIVE OFFICERS

For the Year Ending June 30, 1925

WILLIAM OXLEY THOMPSON, D.D. LL.D.....	President
Office—Administration Building, 99312; N.-476	
Residence—University Grounds, 2056	
CARL E. STEEB, B.Ph.....	Secretary of the Board of Trustees and Business Manager
Office—Administration Building, 99332; N.-32	
Residence—1956 Iuka Avenue, 5835	
EDITH B. COCKINS, B.A.....	Registrar, University Editor, and Secretary of the Faculty
Office—Administration Building, 99314	
Residence—1348 Neil Avenue, 16310	
BLAND L. STRADLEY, M.A.....	University Examiner
Office—Administration Building, 99353; N.-939	
Residence—43 West Patterson Avenue, N.-6960-W	
ELISABETH CONRAD, M.A., Ph.D.....	Dean of Women
Office—Pomerene Hall, 99367; N.-3931-W	
Residence—1981 Indianola Avenue, 11252	
KATHERINE A. VOGEL.....	Executive Clerk
Office—Administration Building, 99312; N.-476	
Residence—209 South Monroe Avenue, Franklin 2356-W	
RAY M. ROYER.....	Purchasing Agent
Office—Administration Building, 99374; N.-3222	
Residence—1828 Arlington Avenue, Hilltop 2850-J	

FRED E. JONES.....	<i>Receiving Clerk</i>
Office—Stores and Receiving Department, 99354; N.-3813	
Residence—255 Oakland Park Avenue, N.-3900-J	
CHARLES A. KUNTZ.....	<i>Comptroller</i>
Office—Administration Building, 99332; N.-32	
Residence—265 Tulane Road, N.-2240-J	
FLORIS D. HANE.....	<i>Cashier</i>
Office—Administration Building, 99332; N.-32	
Residence—373 Thirteenth Avenue, 11954	
WILLIAM C. MCCracken.....	<i>Superintendent of Operation and Maintenance</i>
Office—Service Building, 99370; N.-718	
Residence—8 West Woodruff Avenue, 11823	
JOSEPH N. BRADFORD.....	<i>University Architect</i>
Office—Brown Hall, 99361	
Residence—55 East Oakland Avenue, 14844	
EMMA MCKINLEY PROUT.....	<i>House Superintendent Oxley and Mack Halls</i>
Office and Residence—Mack Hall, 99352; 6414; N.-5820	
EDWARD S. DRAKE.....	<i>Manager, Ohio Union</i>
Office and Residence—Ohio Union, 99350, one ring; N.-3270	

## APPENDIX III

Which shows the number of professors, officers, teachers, and other employees, and the position and compensation of each, as required by Section 7947 of an Act passed May 29, 1915.

<i>Name of Employee</i>	<i>Position</i>	<i>Salary</i>
William Oxley Thompson	President.....	\$10,000.00

## COLLEGE OF AGRICULTURE

Alfred Vivian	Dean.....	6,000.00
True G. Watson	Secretary of the College.....	2,800.00
Bessie M. Freet	Secretary to Dean.....	1,200.00
Anna Haynes	Stenographer.....	960.00
Nora Peck	Stenographer.....	960.00
Eleanore K. Fisher	Stenographer.....	960.00
Anna S. Miller	Stenographer.....	960.00
Frances Summers	Stenographer.....	960.00
Helen Coleman	Stenographer.....	960.00
Evelyn Tomlinson	Stenographer.....	960.00
Effa Harm	Stenographer.....	960.00
*Margaret Riley	Stenographer.....	258.06
Beatrice Samson	Stenographer.....	480.00
*Mary Hirst	Stenographer.....	139.35
Hazel Monett	Stenographer.....	480.00
Flo Bailey	Stenographer.....	480.00
*Frances Garden	Stenographer.....	160.00
*Hazel T. Zwyer	Stenographer.....	608.00
*Cecelia Ryan	Stenographer.....	340.64
*Ruth Phillips	Stenographer.....	704.52
*Jane Allen	Stenographer.....	188.39

## AGRICULTURAL CHEMISTRY

John F. Lyman	Professor.....	4,500.00
Thomas G. Phillips	Professor.....	2,333.34
Emory F. Almy	Instructor.....	2,200.00
R. C. Burrell	Instructor.....	1,200.00
Carl P. Hinkle	Assistant.....	900.00
*John D. Guthrie	Student Assistant.....	150.00
*Inez B. Blystone	Student * Assistant.....	100.00



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## AGRICULTURAL EDUCATION

W. F. Stewart	Professor.....	3,000.00
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## AGRICULTURAL ENGINEERING

*F. W. Ives	Professor.....	354.16
C. O. Reed	Professor.....	4,250.00
G. W. McCuen	Professor.....	4,166.66
P. B. Potter	Assistant Professor.....	3,300.00
*E. C. Haughn	Mechanic.....	1,125.00
J. T. Miller	Mechanic.....	1,400.00
M. S. Klinck	Assistant (10 months).....	750.00
*Benton M. Stahl	Instructor.....	2,025.00
*Edward A. Silver	Assistant (temporary).....	1,600.00
*Walter Umbstaetter	Mechanic.....	375.00

## ANIMAL HUSBANDRY—INSTRUCTIONAL

Carl W. Gay	Professor.....	6,000.00
C. S. Plumb	Professor.....	4,000.00
D. J. Kays	Professor.....	3,750.00
J. S. Coffey	Professor.....	3,750.00
C. T. Conklin	Assistant Professor.....	4,025.00
John R. Kimber	Graduate Assistant.....	500.00
Walter R. Krill	Graduate Assistant.....	500.00

## ANIMAL HUSBANDRY—EMPLOYEES

David M. Fyffe	Superintendent Live Stock.....	1,800.00
Paul Jackson	Dairy Cattle Herdsmen.....	1,440.00
William Franklin	Shepherd.....	1,440.00
Robert Watson	Groom.....	1,440.00
Judson Solomon	Swine Herdsman.....	1,440.00
Cecil Bayes	Beef Cattle Herdsman.....	1,290.00
*George Taylor	Beef Cattle Herdsman.....	210.00
Ray Garrett	Assistant Dairy Cattle Herdsman.....	1,080.00
J. T. Laws	Assistant Swine Herdsman.....	1,080.00
H. T. Laws	Laborer.....	1,080.00
Jefferson Severe	Laborer.....	1,080.00
Alvin McAdow	Laborer.....	1,080.00
Joseph Miller	Laborer.....	1,080.00
L. H. Myers	Laborer.....	960.00
William Whitacre	Laborer.....	960.00
L. G. Souders	Assistant Shepherd.....	1,080.00
*Clarence Schwan	Laborer.....	240.00
*Alexander Blockhall	Herdsman.....	800.00

## BOTANY

E. N. Transeau	Professor.....	5,000.00
J. H. Schaffner	Professor.....	3,500.00
W. G. Stover	Professor.....	3,500.00
H. C. Sampson	Professor.....	3,500.00
A. E. Waller	Assistant Professor.....	3,250.00
L. H. Tiffany	Instructor.....	2,500.00
J. D. Sayre	Instructor.....	2,500.00
*Lois Lampe	Instructor.....	375.00
R. A. Dobbins	Instructor.....	1,500.00
Dwight M. Moore	Instructor.....	375.00
Bernard S. Meyer	Instructor.....	1,500.00
Harmon A. Runnels	Assistant.....	1,000.00
J. S. Crabb	Assistant.....	1,200.00
Sylvester S. Humphrey	Instructor (Special).....	1,125.00
Robert Campbell	Graduate Assistant.....	500.00
*Curtis May	Graduate Assistant.....	332.00
Pearl E. Williams	Graduate Assistant.....	598.33

Paul J. Hanes	Student Assistant.....	300.00
Merton D. Oyler	Student Assistant.....	300.00
Ivan E. Massar	Graduate Assistant (Summer Quarter).....	150.00
R. Clark Gilmore	Assistant.....	1,000.00
Andrew S. Stauffer	Assistant.....	1,000.00
Ray T. Everly	Student Assistant.....	300.00
Jesse D. Diller	Student Assistant.....	300.00
*Esther R. Leonhardt	Student Assistant.....	270.00
*Phyllis E. Smith	Student Assistant.....	270.00

## DAIRYING

Oscar Erf	Professor.....	4,500.00
R. B. Stoltz	Professor.....	3,500.00
H. D. Drain	Assistant Professor.....	2,500.00
D. S. Kochheiser	Instructor.....	2,100.00
J. B. Seelig	Driver.....	1,080.00
Adolph F. Bohren	Graduate Assistant.....	500.00

## FARM CROPS

J. B. Park	Professor.....	4,000.00
C. G. Williams	Professor..... (non-resident)	
C. J. Willard	Assistant Professor.....	3,000.00
H. L. Borst	Instructor.....	2,200.00
R. H. Livingston	Assistant (Field Work).....	1,320.00
Marion T. Meyers	Instructor.....	975.00
Robert W. Gerdel	Graduate Assistant.....	500.00

## FARM OPERATIONS

Thomas D. Phillips	Assistant Professor and Farm Superintendent.....	3,000.00
John DeWitt	Mechanic.....	1,500.00
Lloyd Blackburn	Mechanic.....	1,200.00
Charles Pugh	Head Teamster.....	1,200.00
M. Peck	Teamster.....	1,080.00
B. L. Johnson	Laborer.....	1,080.00
John Long	Laborer.....	1,080.00
S. N. Bell	Laborer.....	1,080.00
H. L. Bosart	Laborer.....	1,080.00
A. M. Farley	Laborer.....	1,080.00
Homer Clark	Laborer.....	1,080.00

## HOME ECONOMICS

Faith R. Lanman	Professor.....	4,000.00
Grace G. Walker	Professor.....	3,600.00
Maude G. Adams	Professor.....	1,800.00
June Findley	Assistant Professor.....	2,800.00
Hughina McKay	Assistant Professor.....	2,725.00
Alice Donnelly	Assistant Professor.....	2,500.00
Elsie Steiger	Instructor.....	2,000.00
*Katherine Bazole	Instructor.....	500.00
Marian Smith	Instructor.....	700.00
May A. Blanchard	Graduate Assistant.....	675.00
Frances Mathias	Graduate Assistant.....	300.00
Dorothy South	Graduate Assistant.....	300.00
*Eunice Ryan	Instructor.....	1,800.00
*Leona R. Peckham	Instructor.....	140.00
Mary Ann Graber	Student Assistant.....	135.00
*L. Maybelle Cornell	Instructor.....	1,650.00
*Elizabeth C. Cooley	Instructor.....	1,125.00
*Blanche Oyler	Student Assistant.....	135.00
*R. Azelia White	Student Assistant.....	135.00
*Rachel Ewing	Student Assistant.....	135.00
*Glenna Schlitt	Assistant.....	700.00



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*Georgene Linn	Assistant.....	600.00
*Ottile Rohe	Assistant.....	585.00
*Leona R. Peckham	Instructor.....	750.00
*Doris Kissinger	Student Assistant.....	105.00
*Emma Henton	Assistant.....	300.00

## HORTICULTURE AND FORESTRY

W. Paddock	Professor.....	4,500.00
William R. Sears	Professor.....	3,500.00
L. M. Montgomery	Professor.....	3,300.00
A. D. Taylor	Non-resident Professor.....	750.00
A. C. Hottes	Assistant Professor.....	3,000.00
*George L. Lynch	Assistant Professor.....	1,875.00
N. W. Scherer	Assistant Professor.....	2,250.00
F. G. Charles	Instructor.....	2,160.00
Elusina Lazenby	Instructor.....	1,125.00
John Morrison	Assistant (12 months).....	1,860.00
John Hussey	Assistant (12 months).....	1,860.00
J. E. Shanck	Assistant (12 months).....	1,400.00
Joseph Haigh	Laborer.....	1,080.00

## LAKE LABORATORY

F. H. Krecker	Assistant Director.....	500.00
S. R. Williams	Instructor in Zoology.....	350.00
M. E. Stickney	Instructor in Botany.....	350.00
C. H. Kennedy	Instructor in Entomology.....	350.00

## POULTRY HUSBANDRY

E. L. Dakan	Professor.....	3,750.00
Roy E. Roberts	Instructor.....	1,800.00
Arthur Bayes	Superintendent Poultry Plant.....	1,800.00
William Potts	Laborer.....	1,080.00

## RURAL ECONOMICS

J. I. Falconer	Professor.....	5,000.00
C. G. McBride	Assistant Professor.....	3,500.00
C. E. Lively	Assistant Professor.....	3,600.00
F. L. Morison	Instructor.....	2,500.00
Myrtle Souders	Clerk.....	960.00
Irma Earle	Clerk.....	960.00
Margie Hoffman	Stenographer.....	960.00
John F. Dowler	Assistant.....	360.00

## SOILS

Firman E Bear	Professor.....	4,500.00
*Robert M. Salter	Assistant Professor.....	1,800.00
Guy W. Conrey	Assistant Professor.....	2,250.00
George M. McClure	Instructor.....	2,700.00
Charles L. Thrash	Instructor.....	2,400.00
George Valley	Instructor (Summer Quarter).....	500.00
Earl Day	Assistant.....	1,080.00
Elbert Stephenson	Assistant.....	1,080.00
James W. Jones	Assistant.....	1,080.00

## ZOOLOGY AND ENTOMOLOGY

Raymond C. Osburn	Professor.....	5,000.00
Herbert Osborn	Research Professor.....	5,000.00
W. M. Barrows	Professor.....	3,250.00
F. H. Krecker	Professor.....	3,250.00
D. M. DeLong	Professor.....	3,250.00
W. J. Kostir	Assistant Professor.....	2,750.00
C. H. Kennedy	Assistant Professor.....	3,000.00
James S. Hine	Associate Professor.....	2,500.00

E. L. Wickliff	Instructor.....	1,500.00
David F. Miller	Instructor.....	1,500.00
Linden F. Edwards	Instructor.....	1,200.00
Archie N. Tissot	Assistant.....	900.00
Mary Warters	Assistant.....	900.00
Joseph A. Reeves	Assistant.....	900.00
Samuel F. Potts	Graduate Assistant.....	500.00
George F. Knowlton	Graduate Assistant.....	500.00
Reginald H. Painter	Graduate Assistant.....	500.00
John O. Pepper	Graduate Assistant.....	500.00
* Foster L. Gambrell	Graduate Assistant.....	387.00
Oscar L. Cartwright	Graduate Assistant.....	500.00
Harold C. Lewis	Instructor (Summer Quarter).....	650.00
Homer S. Swingle	Assistant (Summer Quarter).....	300.00
Alden E. Noble	Assistant.....	900.00
Mary E. Walker	Graduate Assistant.....	500.00
* Marion W. Boesel	Graduate Assistant.....	111.11

## COLLEGE OF ARTS

W. E. Henderson	Dean.....	6,000.00
Smiley M. Whinery	Secretary.....	2,700.00
Ruth Evans	Stenographer.....	1,200.00
Marie Combs	Stenographer.....	960.00
* Luella Wright	Stenographer.....	240.00
Ethel Saunders	Stenographer.....	960.00
* Helen Grunick	Stenographer.....	80.00
* Mildred Williams	Stenographer.....	757.33
* Mary M. Thomas	Stenographer.....	248.00
* Dorothy Lyford	Stenographer.....	480.00

## AMERICAN HISTORY

G. W. Knight	Professor.....	5,000.00
H. C. Hockett	Professor.....	4,250.00
Arthur C. Cole	Professor.....	4,000.00
Lawrence F. Hill	Assistant Professor.....	2,666.33
Eugene Roseboom	Instructor.....	2,250.00
* S. S. McKay	Instructor.....	500.00
Eugene Roseboom	Instructor (Summer Quarter).....	200.00
George M. Stephenson	Assistant Professor (Special—9 months).....	3,500.00
Frederick C. Ault	Student Assistant.....	250.00
* F. P. Weisenburger	Instructor.....	1,500.00
* William T. Utter	Instructor.....	1,500.00
Robert G. Earl	Student Assistant.....	250.00
Russell H. Martin	Student Assistant.....	250.00

## ENGLISH

J. V. Denney	Professor.....	6,000.00
G. H. McKnight	Professor.....	4,500.00
J. R. Taylor	Professor.....	4,400.00
C. E. Andrews	Professor.....	4,500.00
W. L. Graves	Professor.....	4,250.00
E. L. Beck	Professor.....	3,500.00
V. A. Ketcham	Professor.....	3,500.00
Milton Percival	Assistant Professor.....	3,500.00
E. W. Wiley	Instructor.....	2,750.00
W. P. Sandford	Instructor.....	2,750.00
J. F. Craig	Instructor.....	2,500.00
Hayes Yeager	Instructor.....	2,500.00
Manning Smith	Instructor.....	2,500.00
Sada Harbarger	Assistant Professor.....	2,500.00
* Verona Dollinger	Instructor.....	300.00
Edith Sniffen	Instructor.....	1,800.00
* Whittier Burnet	Instructor.....	600.00



Herman Miller	Instructor.....	1,800.00
John M. Weed	Instructor.....	1,800.00
James Fullington	Instructor.....	1,800.00
*J. Harold Wilson	Instructor.....	1,350.00
*Roy N. Owsley	Instructor.....	1,350.00
Eleanor Percival	Instructor.....	1,500.00
Mary E. Rhodes	Instructor.....	1,500.00
*Sigmund K. Proctor	Instructor.....	1,125.00
Mary A. Hitchcock	Instructor.....	1,500.00
Harlan Hatcher	Instructor.....	1,725.00
Henry C. Kohler	Assistant.....	1,000.00
Herbert Edwards	Assistant.....	1,000.00
Benjamin Gamzue	Assistant.....	1,000.00
H. M. Smyser	Assistant.....	1,000.00
Florence Eberhardt	Graduate Assistant.....	500.00
Florence Chubbuck	Graduate Assistant.....	500.00
W. Melville Jones	Graduate Assistant.....	500.00
*John F. Locke	Graduate Assistant.....	166.00
Thelma Matheny	Graduate Assistant.....	500.00
James M. Purcell	Graduate Assistant.....	500.00
*Charles G. Fulkerson	Graduate Assistant.....	166.00
Earl P. Carter	Graduate Assistant.....	500.00
*Dabney Horton	Instructor.....	1,350.00
Robert S. Adams	Student Assistant.....	150.00
Miles M. Graham	Assistant.....	1,000.00
Tom B. Heber	Assistant.....	1,000.00
Helen Pond	Graduate Assistant.....	500.00
Josephine Bye	Graduate Assistant.....	500.00
Elmer J. McCue	Graduate Assistant.....	500.00
Lily Schindelman	Graduate Assistant.....	500.00
*Bert Emsley	Instructor.....	1,350.00
*Clyde S. Nesbitt	Instructor.....	1,350.00
Nelson Budd	Graduate Assistant.....	500.00
*Charles G. Fulkerson	Graduate Assistant.....	332.00
*Robert S. Adams	Graduate Assistant.....	166.66
Beulah Clark	Graduate Assistant.....	150.00
Victor L. Parks	Graduate Assistant.....	150.00
Dorothy M. Calkins	Graduate Assistant.....	150.00
Cyrus K. Carroll	Graduate Assistant.....	150.00
Josephine Waters	Graduate Assistant.....	150.00
Henry M. Sayre	Graduate Assistant.....	150.00

## EUROPEAN HISTORY

W. H. Siebert	Professor.....	5,000.00
Edgar H. McNeal	Professor.....	4,250.00
H. M. Stuckert	Assistant Professor.....	3,000.00
G. A. Washburne	Assistant Professor.....	2,750.00
John R. Knipfing	Assistant Professor.....	2,750.00
A. H. Noyes	Instructor.....	2,500.00
Arthur W. Jones	Instructor.....	1,800.00
John LaMonte	Instructor (Summer Quarter).....	350.00
Walter T. Wirthwein	Instructor (Autumn Quarter).....	500.00

## GEOLOGY

J. A. Bownocker	Professor.....	4,500.00
J. E. Carman	Professor History Geology, and Curator.....	4,000.00
R. E. Lamborn	Instructor.....	2,250.00
Grace Stewart	Instructor.....	2,000.00
Wilber Stout	Lecturer.....	300.00
Althea Lepper	Student Assistant.....	100.00
T. R. Myers	Student Assistant.....	100.00
Erwin Naujoks	Student Assistant.....	100.00
*J. A. Culbertson	Instructor.....	1,500.00
*Waldo S. Glock	Instructor.....	1,687.50

*Macleod E. Hurst	Instructor.....	1,500.00
*Edmund M. Spieker	Assistant Professor.....	2,437.00

## GERMAN

M. B. Evans	Professor.....	5,000.00
L. Bloomfield	Professor.....	4,250.00
B. A. Eisenlohr	Professor.....	3,000.00
Ernst Feise	Assistant Professor.....	3,600.00
May Thomas	Assistant Professor.....	3,200.00
Lambert A. Shears	Instructor.....	2,400.00
*Emilie Balz	Instructor.....	300.00

## GREEK

George M. Bolling	Professor.....	5,000.00
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## LATIN

A. W. Hodgman	Professor.....	3,600.00
W. S. Elden	Professor.....	3,600.00
S. B. Smith	Instructor.....	3,000.00

## PHILOSOPHY

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George H. Sabine	Professor.....	5,000.00
A. E. Avey	Assistant Professor.....	3,000.00
D. L. Evans	Instructor.....	2,187.50
*Oliver L. Reiser	Instructor (Substitute).....	2,000.00

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F. W. Coker	Professor.....	4,500.00
Howard B. Calderwood	Instructor.....	2,800.00
James K. Pollock	Instructor.....	2,000.00
Harry P. Jeffrey	Assistant.....	500.00

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W. S. Hendrix	Professor.....	4,500.00
Olin H. Moore	Professor.....	4,200.00
George R. Havens	Professor.....	4,000.00
*Claude E. Anibal	Assistant Professor.....	2,625.00
Santiago Gutierrez	Assistant Professor.....	3,250.00
*E. F. Hacker	Assistant Professor.....	2,977.50
Robert Fouré	Assistant Professor.....	3,250.00
Theodore E. Hamilton	Assistant Professor.....	2,500.00
W. A. Whatley	Instructor.....	3,300.00
W. C. Smyser	Instructor.....	2,350.00
Florence Hier	Instructor.....	2,200.00
Emily Schons	Instructor.....	2,000.00
Bertha P. Arthur	Instructor.....	1,900.00
Helen V. Terry	Instructor.....	1,600.00
*Frederick Sanchez	Instructor.....	375.00
*Helen C. Barr	Instructor.....	1,237.50
Flola Shepard	Assistant.....	1,650.00
Earl C. Shively	Assistant.....	1,650.00
Marie Davis	Assistant.....	1,500.00
Lura M. Jewell	Assistant.....	900.00
Dorothy Porter	Assistant.....	1,350.00
Harry Russell	Assistant.....	2,000.00
Jose Palomo	Assistant.....	1,800.00
T. R. Wiley	Assistant.....	1,800.00
*Helen L. Weinman	Assistant.....	450.00
*Kathleen B. Smith	Assistant.....	150.00
Florence E. White	Assistant.....	1,650.00



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## COLLEGE OF COMMERCE AND JOURNALISM

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Claire Harmyer	Assistant.....	2,000.00
Nell Gainer	Stenographer.....	1,080.00
Bertha C. Caley	Stenographer.....	960.00
Rose Mindigo	Stenographer.....	960.00
Esther Goddard	Stenographer.....	960.00
Ruth Pollitt	Stenographer.....	960.00
Lucile Armentrout	Stenographer.....	960.00
Adelaide Gardner	Stenographer.....	960.00
*Hilda Guth	Stenographer.....	506.67
*Nelson J. Neubig	Secretary Extension Service.....	425.00
*Helen Dayton	Clerk.....	268.39

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Howard C. Greer	Assistant Professor.....	2,375.00
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*D. M. Shonting	Instructor.....	1,575.00
*Harold K. Casterton	Instructor.....	1,200.00
W. D. Wall	Lecturer.....	800.00
Maynard M. Donaldson	Assistant.....	720.00
*R. S. Wilcox	Instructor.....	1,875.00
Nelson J. Neubig	Assistant.....	1,000.00
*Herman C. Miller	Instructor.....	1,200.00

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George W. Starr	Assistant Director.....	1,500.00
*John Pryor	Investigator.....	300.00
*H. H. Shively	Investigator.....	1,125.00
Erla Wambold	Stenographer.....	960.00
*Josephine Lowrie	Assistant.....	884.82
*Mildred Coen	Assistant.....	225.00

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Harold H. Maynard	Professor.....	4,000.00
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Ralph C. Davis	Assistant Professor.....	3,600.00
Charles A. Dice	Assistant Professor.....	3,500.00
Felix E. Held	Assistant Professor.....	3,500.00
Montgomery E. Pike	Assistant Professor.....	3,000.00
Milton Nelson	Assistant Professor.....	3,000.00
Theodore N. Beckman	Assistant Professor.....	2,500.00
Howard H. Webster	Instructor.....	1,750.00
Ralph H. Richards	Instructor.....	2,000.00
H. H. Shively	Assistant.....	1,500.00
George W. Starr	Assistant.....	1,000.00
Robert M. Hunter	Assistant.....	1,200.00
Cary W. Bowers	Assistant.....	900.00
*William H. Belden	Reader.....	100.00
*W. R. Kaufman	Reader.....	100.00
William M. Summers	Reader.....	150.00
G. W. Chambers	Reader.....	150.00
L. J. Arnold	Reader.....	150.00
K. B. Johnston	Reader.....	150.00
Charles W. Reeder	Assistant Professor.....	3,000.00
*Russell E. Lyons	Assistant.....	600.00

Robert D. McGinnis	Assistant.....	500.00
George E. Rinck	Assistant.....	1,800.00
F. P. Brasseur	Reader.....	45.00
W. R. Kaufman	Assistant.....	195.00

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H. F. Walradt	Assistant Professor.....	3,500.00
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L. E. Smart	Instructor.....	2,000.00
*Louise Stitt	Instructor.....	1,500.00
*C. W. Fink	Instructor.....	826.38
*Virgil Willett	Instructor.....	437.50
Frederick Croxton	Instructor (Summer Quarter).....	750.00
Edison L. Bowers	Assistant.....	1,500.00
Frank R. Hunt	Assistant.....	1,500.00
*Lowell K. Hanson	Reader.....	100.00
Robert E. Bachman	Reader.....	150.00
*Martin F. Gaudian	Reader.....	100.00
Herbert Willett	Reader.....	150.00
Clifford L. James	Reader.....	150.00
Clyde Brooks	Assistant.....	1,800.00
Helen E. Cherington	Assistant.....	1,500.00
*R. H. Sharrock	Reader.....	50.00
*Eldon R. Young	Assistant.....	221.00
G. Marvin Wright	Reader.....	150.00
Harry L. Wylie	Reader.....	150.00
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Oliver B. Combs	Reader.....	75.00
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*Margaret Barger	Reader.....	100.00
*Paul C. Bovey	Reader.....	100.00
*Earl C. Willson	Reader.....	100.00
*William H. Beldon	Assistant.....	277.00
Elvin F. Donaldson	Reader.....	50.00

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Roderick Peattie	Assistant Professor.....	3,000.00
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Harold Fischer	Assistant.....	1,300.00
Stella Huntington	Assistant.....	300.00
*Richard C. Webster	Reader.....	84.00
R. R. Sharrock	Assistant.....	1,200.00
*Webster L. Davis	Assistant.....	650.00
Harold E. Stewart	Reader.....	50.00

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*Russell Lord	Instructor.....	450.00
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Ruth E. Turner	Business Manager of Lantern.....	500.00
John B. Fullen	Editor of Lantern (Summer Quarter).....	100.00
Wilbur E. Snapp	Business Manager of Lantern (Summer Quarter).....	100.00
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Albert P. Taylor	Instructor.....	2,340.00
*John R. Fleming	Instructor.....	675.00
J. L. Morrill	Instructor.....	300.00



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F. E. Lumley	Professor.....	5,000.00
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Perry P. DeNune	Instructor.....	2,000.00
*J. W. Hatcher	Instructor.....	1,275.00
Belle D. Boyson	Lecturer.....	375.00
Walter M. West	Lecturer.....	1,000.00
James W. Wheeler	Lecturer.....	700.00
W. C. Mills	Lecturer.....	500.00
Lloyd Wilcox	Assistant.....	700.00
N. K. Teeters	Reader.....	150.00
Grace Richmond	Reader.....	300.00
*Herbert A. Miller	Professor.....	4,500.00
*Evelyn Buchan	Instructor.....	1,725.00
Elizabeth Long	Lecturer.....	700.00
W. J. Blackburn	Assistant (Winter Quarter).....	500.00

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Clyde H. Hebble	Assistant Professor.....	1,700.00
William C. Graham	Assistant Professor.....	1,300.00
R. B. Wiltberger	Assistant Professor.....	1,000.00
Ollie O. Mobberly	Superintendent Laboratories.....	2,400.00
Herbert S. Shumway	Instructor.....	1,675.00
Charles W. Stroenider	Instructor.....	1,450.00
Dick P. Snyder	Instructor.....	1,225.00
Louis E. Reif	Instructor.....	1,000.00
Irwin A. Bottenhorn	Instructor.....	1,125.00
Reginald J. Woodward	Student Assistant.....	200.00

## COLLEGE OF EDUCATION

George F. Arps	Dean.....	6,000.00
N. S. Maddox	Instructor in Education.....	2,600.00
Esther Miller	Stenographer.....	1,500.00
Wanda Rittenhouse	Stenographer.....	1,080.00
Mildred Baker	Clerk.....	891.13
*Louise N. Postle	Stenographer.....	200.00
*Mildred Dennis	Stenographer.....	160.00
Florence Fearing	Stenographer.....	960.00
*Lura B. Chamblin	Stenographer.....	210.67
Mary E. Wheaton	Stenographer.....	960.00
Gertrude L. Higgins	Stenographer.....	960.00
*Catherine Chancellor	Stenographer.....	721.13
Ruth Dellenbach	Stenographer.....	960.00
Olive M. Steele	Stenographer.....	960.00
*Mary I. Newton	Stenographer.....	150.17
*Eleanor L. Kohn	Stenographer.....	792.00
*Teresa Daugherty	Stenographer.....	760.00
*Myrtle R. Albaugh	Stenographer.....	296.13
*Lorraine L. Scholtz	Stenographer.....	631.83
*Anne C. Beaman	Clerk.....	400.00
*Rose Thall	Stenographer.....	214.19
*Eleanor Tress	Clerk.....	128.87
*Marie Clouse	Stenographer.....	45.33

## BUREAU OF EDUCATIONAL RESEARCH

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Josephine MacLatchy	Editorial Assistant.....	2,500.00

Helen Woodfill	Assistant to Director.....	1,500.00
*Caryl Miller	Indexer.....	1,375.00
Helen V. Brown	Proofreader.....	1,375.00
H. C. Koch	Research Assistant.....	1,200.00
*Ruth E. Atkinson	Comptometer Operator.....	225.00
*A. O. Heck	Research Assistant.....	300.00
*Ruth H. Graham	Comptometer Operator.....	675.00
*Ralph Livingston	Research Assistant.....	1,000.00

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Ralph S. Fanning	Assistant Professor.....	3,500.00
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Alma Knauber	Instructor.....	2,000.00
Florence E. Mitchell	Instructor.....	1,800.00
E. W. Rannels	Instructor.....	1,750.00
Pleasant McIntosh	Instructor.....	1,500.00
Ted C. Lewis	Assistant.....	750.00
Elizabeth Weiffenbach	Instructor (Summer Quarter).....	500.00
Pauline C. Egbert	Stenographer.....	960.00
Elizabeth C. Joyce	Assistant.....	750.00

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*Mark E. Penney	Professor.....	500.00
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*A. P. Savides	Professor.....	3,000.00
*Virginia Kaufman	Reader.....	210.00

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Robert E. Smith	Assistant Professor.....	3,500.00

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Florence L. Shute	Assistant Professor.....	600.00
Winifred V. Smith	Assistant Professor.....	550.00
Nelle I. Sharpe	Assistant Professor.....	600.00
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Olwen Jones	Accompanist.....	100.00

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*George R. Twiss	Professor.....	2,437.50
F. C. Landsittel	Assistant Professor.....	3,250.00
Raymond D. Bennett	Assistant Professor.....	3,000.00
*H. Gordon Hullfish	Instructor.....	1,875.00
Theodore L. Scholtz	Assistant.....	1,500.00
H. B. Alberty	Assistant.....	1,000.00
Lura M. Jewell	Graduate Assistant.....	500.00
M. C. Otto	Professor.....	800.00
J. C. Chapman	Professor.....	800.00
Henry Neumann	Professor.....	700.00
Edwin W. Pahlow	Professor.....	700.00
Eva Luse	Assistant Professor.....	600.00
Adelaide Ayer	Assistant Professor.....	600.00
Nancy Sidwell	Assistant.....	350.00
William E. Moffatt	Assistant.....	200.00



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## PSYCHOLOGY

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Albert P. Weiss	Professor.....	4,500.00
Harold E. Burt	Professor.....	4,250.00
Edgar A. Doll	Assistant Professor.....	4,000.00
Herbert A. Toops	Assistant Professor.....	4,000.00
Sidney L. Pressey	Assistant Professor.....	3,250.00
Robert D. Williams	Assistant Professor.....	3,250.00
H. M. Johnson	Assistant Professor.....	3,187.50
A. Sophie Rogers	Assistant Professor.....	2,500.00
Erwin A. Esper	Instructor.....	2,400.00
Bertha C. Koch	Instructor.....	2,000.00
O. R. Chambers	Instructor.....	2,000.00
Adolph G. Ekdahl	Instructor.....	2,000.00
Luella C. Pressey	Instructor.....	2,000.00
D. A. Worcester	Instructor (Special).....	2,000.00
Carl N. Rexroad	Instructor.....	2,100.00
Albert L. Henderson	Instructor.....	1,800.00
C. H. Growdon	Assistant.....	1,000.00
M. A. Durea	Assistant.....	2,000.00
Myra W. Kuenzel	Assistant.....	750.00
G. E. Weigand	Assistant.....	750.00
Karl C. Pratt	Assistant.....	600.00
Helen Corbett	Assistant.....	500.00
Irma Loeb	Assistant.....	500.00
Frank P. Bakes	Assistant.....	500.00
*W. G. Harding	Assistant.....	110.00
Myra W. Kuenzel	Assistant (Summer Quarter).....	250.00
E. N. Henderson	Professor (Winter Quarter).....	800.00
Zoe Emily Leatherman	Assistant.....	1,800.00
*Elmer Bowers	Graduate Assistant.....	390.00
*Ralph E. Dunford	Graduate Assistant.....	375.00

## SCHOOL ADMINISTRATION

C. C. McCracken	Professor.....	4,750.00
J. C. Morrison	Professor.....	5,500.00
W. G. Reeder	Assistant Professor.....	3,500.00
F. P. O'Brien	Professor.....	1,000.00
F. T. Goodier	Professor.....	750.00
G. E. Carrothers	Professor.....	750.00
Paul W. Terry	Professor.....	750.00
J. O. Engleman	Professor.....	750.00
E. D. Roberts	Professor.....	800.00
C. C. Ross	Assistant Professor.....	1,000.00
William W. Ankenbrand	Graduate Assistant.....	200.00
F. Herrick Connors	Graduate Assistant.....	500.00
A. O. Heck	Assistant Professor (Special—9 months).....	3,600.00
Amos L. Heer	Graduate Assistant.....	700.00

## VOCATIONAL EDUCATION

A. H. Sproul	Assistant Professor (1 term).....	600.00
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## COLLEGE OF ENGINEERING

E. A. Hitchcock	Dean.....	6,000.00
Lenora Glasgow	Assistant to Dean.....	1,800.00
Annette Shugert	Stenographer.....	1,080.00
*Mabel Vesper	Stenographer.....	340.00
*Mary Lahmering	Stenographer.....	258.06
Mina Kennedy	Stenographer.....	960.00
Alberta Williams	Stenographer.....	960.00
*Dorothy Lyford	Stenographer.....	480.00
Roxanna Rader	Stenographer.....	960.00
*Edith A. Lutz	Stenographer.....	240.00

Gladys F. Skadden	Stenographer.....	960.00
*Edith R. Hutton	Stenographer.....	553.87
*Carolyn B. Hard	Stenographer.....	616.00
*Catherine Earle	Stenographer.....	680.00
*Bessie C. Neff	Stenographer.....	469.68
*Catherine Luff	Stenographer.....	400.00
*Frances Rannels	Clerk.....	340.00
*Helen M. Peacocke	Stenographer.....	8.00
*Alene Little	Stenographer.....	201.29

## ARCHITECTURE

C. S. Chubb	Professor.....	4,800.00
J. N. Bradford	Professor.....	1,300.00
Herbert Baumer	Professor.....	2,000.00
W. C. Ronan	Assistant Professor.....	3,200.00
F. H. Haskett	Instructor.....	2,750.00
Galen F. Oman	Instructor.....	2,150.00
*Richard S. Buck, Jr.	Instructor.....	1,500.00

## ASTRONOMY

H. C. Lord	Professor.....	4,000.00
E. S. Manson	Professor.....	3,000.00
Parker Z. Bloser	Student Assistant (Summer).....	120.00
Joseph L. Wright	Assistant.....	500.00
Henry I. Raymond	Student Assistant.....	360.00
Vera M. Gushee	Instructor (Spring Quarter).....	660.00

## CERAMICS

Arthur S. Watts	Professor.....	4,900.00
James T. Robson	Instructor.....	3,000.00
John Lysatt	Technician.....	1,000.00
Frank C. Westendick	Student Assistant.....	350.00

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Cecil E. Boord	Professor.....	4,000.00
Jesse E. Day	Assistant Professor.....	3,750.00
Edward E. Mack	Assistant Professor.....	3,500.00
Wesley G. France	Assistant Professor.....	3,250.00
Marion Hollingsworth	Assistant Professor.....	2,700.00
*Howard E. Fritz	Instructor.....	1,650.00
Albert H. Vilbrandt	Instructor.....	2,200.00
C. D. Looker	Instructor.....	2,200.00
Harold J. Barrett	Assistant.....	1,000.00
Henry B. Hass	Assistant.....	1,000.00
Lucian F. Hunt	Assistant.....	1,000.00
James E. Hutchman	Assistant.....	1,000.00
George F. Karns	Assistant.....	1,000.00
William W. Mills	Assistant.....	1,000.00
Charles S. Pease	Assistant.....	1,000.00
Lloyd C. Swallen	Assistant.....	1,000.00
Albert M. Clifford	Assistant.....	1,000.00
David C. O'Donnell	Assistant.....	1,000.00
Andrew E. Roper	Assistant.....	1,000.00
Ralph H. Ferguson	Assistant.....	1,000.00
H. Clyde Carlton	Assistant.....	1,000.00
Homer L. Cupples	Assistant.....	666.00
*George H. Vanderborgh	Assistant.....	1,000.00
*Georgé M. Strong	Part-time Assistant.....	55.00
Robert W. Collins	Part-time Assistant.....	500.00
Alpha J. Will	Part-time Assistant.....	500.00
Marvin Achterhof	Graduate Assistant.....	500.00



## ANNUAL REPORT

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Marjorie Benoy	Graduate Assistant.....	500.00
William R. Cornthwaite	Graduate Assistant.....	500.00
Margaret Eslinger	Graduate Assistant.....	500.00
*Frederick E. Frey	Graduate Assistant.....	125.00
James M. Purdy	Graduate Assistant.....	500.00
George T. Rankin	Graduate Assistant.....	500.00
Bernard H. Gilmore	Graduate Assistant.....	500.00
Raymond E. Schaad	Graduate Assistant.....	500.00
Robert Wimmer	Graduate Assistant.....	500.00
Harry B. Dykstra	Graduate Assistant.....	500.00
Charles E. Waring	Graduate Assistant.....	500.00
Mordica M. Ryan	Graduate Assistant.....	500.00
Warren A. Kramer	Graduate Assistant.....	500.00
William C. Calvert	Graduate Assistant.....	500.00
Glen Duttweiler	Graduate Assistant.....	500.00
Virgil L. Hansley	Graduate Assistant.....	500.00
Harold P. Klug	Graduate Assistant.....	500.00
Maryan P. Matuszak	Graduate Assistant.....	500.00
Marion M. Stiers	Graduate Assistant.....	500.00
William C. Taylor	Graduate Assistant.....	500.00
William D. Nicoll	Graduate Assistant.....	500.00
Ike Y. East	Graduate Assistant.....	500.00
Earl Kerr	Graduate Assistant.....	500.00
Hollis G. Bell	Student Assistant.....	250.00
Arthur E. Juve	Student Assistant.....	250.00
William F. Underwood	Student Assistant.....	250.00
Ernest N. Waxbom	Student Assistant.....	250.00
Charles Clifton	Student Assistant.....	250.00
Russell Davis	Student Assistant.....	250.00
Joseph F. Haskins	Assistant Professor (Summer Quarter).....	500.00
Edna C. Millonig	Graduate Assistant.....	500.00
Preston Harris	Graduate Assistant.....	500.00
Edgar B. Bloom	Graduate Assistant.....	500.00
F. P. Lasseter	Graduate Assistant.....	500.00
Cleo D. Haught	Graduate Assistant.....	500.00
Theodore S. Eckert	Graduate Assistant.....	500.00
*George C. Strouse	Graduate Assistant.....	350.00
*Frank G. Keenen	Graduate Assistant.....	445.00
*Wilson F. Brown	Instructor.....	666.66

## CIVIL ENGINEERING

C. E. Sherman	Professor.....	5,000.00
C. T. Morris	Professor.....	5,000.00
F. H. Eno	Professor.....	2,655.50
R. C. Sloane	Professor.....	3,850.00
J. R. Shank	Professor.....	3,000.00
J. C. Merrell	Assistant Professor.....	2,250.00
J. M. Montz	Assistant Professor.....	2,587.50
C. H. Wall	Instructor.....	1,750.00
Raymond Sperr	Assistant.....	850.00
John C. Prior	Professor (Substitute).....	2,125.00

## CIVIL ENGINEERING—SUMMER CAMP

R. C. Sloane	Professor.....	525.00
J. C. Merrell	Assistant Professor.....	390.00
J. M. Montz	Assistant Professor.....	375.00
C. H. Wall	Instructor.....	270.00
L. L. Dickson	Assistant.....	270.00

## ELECTRICAL ENGINEERING

F. C. Caldwell	Professor.....	4,250.00
C. A. Wright	Professor.....	3,500.00
R. A. Brown	Assistant Professor.....	2,500.00
A. F. Puchstein	Assistant Professor.....	2,500.00

J. E. Shepardson	Assistant Professor.....	2,250.00
*C. V. O. Terwilliger	Assistant Professor.....	1,687.50
*Arthur G. Wise	Instructor.....	375.00
Edward F. Ferguson	Assistant.....	1,000.00
M. F. McDowell	Radio Operator.....	1,800.00
Robert Hughes	Assistant.....	1,800.00
Mrs. F. C. Charles	Program Manager.....	1,500.00
John Baker	Laborer.....	780.00
Robert C. Higgy	Radio Operator.....	200.00
*Emerson E. Kimberly	Instructor.....	1,350.00
Philip E. Rush	Assistant.....	1,000.00
Glenn A. Spohn	Assistant.....	200.00
Robert C. Higgy	Assistant.....	200.00
Arthur W. Hershey	Assistant.....	200.00
A. G. Conrad	Assistant.....	200.00

## ENGINEERING DRAWING

Thomas E. French	Professor.....	5,000.00
Robert Meiklejohn	Professor.....	3,500.00
W. D. Turnbull	Professor.....	3,200.00
O. E. Williams	Assistant Professor.....	3,000.00
John M. Russ	Assistant Professor.....	2,825.00
W. B. Field	Assistant Professor.....	2,600.00
Ralph Paffenbarger	Assistant Professor.....	2,500.00
Allen P. McManigal	Instructor.....	2,100.00
Ralph W. Dunkle	Instructor.....	2,000.00
*George E. Large	Instructor.....	500.00
Charles D. Cooper	Instructor.....	1,575.00
Tecla F. Haldy	Assistant.....	1,455.00
Hoyt Sherman	Student Assistant.....	520.00
Gerald P. Seegar	Student Assistant.....	300.00
Howard E. Sutton	Student Assistant.....	300.00
Garrett D. Ehrhardt	Student Assistant.....	300.00
George D. Crumley	Student Assistant.....	300.00
*Louis D. Lutzenberger	Instructor.....	1,200.00
*Lawrence D. Jones	Instructor.....	1,200.00

## INDUSTRIAL ARTS

W. A. Knight	Professor.....	3,000.00
C. M. Beem	Instructor.....	1,800.00
Rudolph Schneider	Instructor.....	1,800.00
U. W. Denman	Instructor.....	1,700.00
J. A. Foust	Instructor.....	1,700.00
Harold Wright	Instructor.....	1,700.00
P. L. Wright	Instructor.....	1,600.00
O. D. Rieckly	Instructor.....	1,600.00
Edward A. Janning	Assistant.....	1,600.00
Ora L. Justice	Assistant.....	1,260.00
Thomas Decker	Laborer.....	960.00

## MATHEMATICS

R. D. Bohanan	Professor.....	4,000.00
H. W. Kuhn	Professor.....	4,000.00
S. E. Rnsor	Professor.....	3,750.00
*C. C. MacDuffee	Assistant Professor.....	2,625.00
C. L. Arnold	Professor.....	3,000.00
C. C. Morris	Professor.....	2,750.00
G. W. McCoard	Professor.....	2,000.00
James H. Weaver	Assistant Professor.....	3,000.00
Grace Bareis	Assistant Professor.....	2,250.00
Harry Beatty	Assistant Professor.....	2,250.00
J. B. Preston	Assistant Professor.....	1,800.00
Charles T. Bumer	Assistant Professor.....	2,708.33
Hortense Rickard	Assistant Professor.....	2,000.00



Margaret Jones	Instructor.....	1,800.00
Clarice S. Hobensack	Instructor.....	1,800.00
Vaughn B. Caris	Assistant Professor.....	2,250.00
*J. Dudley Dawson	Assistant.....	333.00
Ellis Powell	Assistant.....	1,000.00
*Raymond L. Wilder	Assistant Professor.....	2,250.00
William C. McCoy	Graduate Assistant.....	665.33

## MECHANICAL ENGINEERING

William T. Magruder	Professor.....	5,000.00
F. W. Marquis	Professor.....	3,750.00
C. A. Norman	Professor.....	3,600.00
Horace Judd	Professor.....	3,000.00
A. I. Brown	Assistant Professor.....	2,750.00
Paul Bucher	Assistant Professor.....	2,400.00
Karl W. Stinson	Assistant Professor.....	2,300.00
H. M. Jacklin	Assistant Professor.....	2,300.00
George N. Moffat	Instructor.....	2,200.00
Samuel R. Beitler	Instructor.....	1,700.00
C. P. Roberts	Instructor.....	1,666.66
John O. Harshman	Instructor.....	1,400.00
C. J. Cobb	Assistant.....	1,300.00
R. L. Pratt	Stationary Engineer.....	1,800.00
James O. Kennedy	Assistant.....	1,200.00
George Richey	Laborer.....	725.00
Harry W. Bruck	Machinist.....	1,350.00
*Robert J. Mathias	Assistant.....	866.67
*Frank E. Neely	Laborer.....	283.31
Martin Hamm	Student Assistant.....	90.00
Clark M. Humphreys	Student Assistant.....	90.00
Robert H. Koehler	Student Assistant.....	63.00
Foster J. Young	Student Assistant.....	63.00
*Robert T. Simpson	Machinist.....	280.64
*John P. Kramer	Laborer.....	140.32

## MECHANICS

James E. Boyd	Professor.....	4,500.00
E. F. Coddington	Professor.....	4,200.00
Percy W. Ott	Assistant Professor.....	2,750.00
Mervin F. Devine	Instructor.....	1,500.00

## METALLURGY

D. J. Demorest	Professor.....	4,500.00
W. A. Mueller	Assistant Professor.....	3,000.00
J. O. Lord	Assistant Professor.....	1,800.00
A. E. Focke	Student Assistant.....	270.00
J. E. Lucas	Student Assistant.....	270.00

## MINE ENGINEERING

H. E. Nold	Professor and Head.....	3,600.00
Frank A. Ray	Consulting Director.....	998.00
*D. S. Tovey	Instructor.....	1,575.00

## MINERALOGY

W. J. McCaughey	Professor.....	4,000.00
Arthur M. Brant	Instructor.....	1,725.00
*J. E. Lucas	Student Assistant.....	90.00
*Herbert H. Ross	Student Assistant.....	180.00

## PHYSICS

A. D. Cole	Professor.....	5,000.00
Alpheus Smith	Professor.....	4,500.00
F. C. Blake	Professor.....	4,000.00
R. F. Earhart	Professor.....	3,750.00

Howard D. Minchin	Professor Applied Optics.....	3,500.00
H. G. Heil	Assistant Professor.....	2,800.00
Alva W. Smith	Assistant Professor.....	2,600.00
D. A. Woodbury	Instructor.....	2,300.00
Rufus H. Snyder	Instructor.....	2,000.00
M. C. Davies	Instructor Applied Optics.....	2,000.00
C. W. Jarvis	Instructor.....	1,900.00
W. V. Houston	Instructor.....	1,900.00
J. W. Sappenfield	Assistant.....	900.00
Francis L. Meara	Assistant.....	850.00
Fred J. Brooks	Assistant.....	1,800.00
J. B. Sparrow	Assistant.....	1,400.00
Lawrence H. Yingling	Graduate Assistant.....	500.00
Emily E. Hannum	Assistant.....	900.00
Frederick V. Hunt	Student Assistant.....	500.00

## COLLEGE OF LAW

John J. Adams	Dean and Professor.....	6,000.00
George W. Rightmire	Professor.....	5,750.00
Alonzo H. Tuttle	Professor.....	5,250.00
Clarence D. Laylin	Professor.....	5,250.00
Lewis M. Simes	Professor.....	4,937.50
*Louise M. Hanes	Stenographer.....	80.00
*Robert E. Mathews	Professor.....	3,187.50
*Daisy Davis	Stenographer.....	80.00
*Pearl W. Poe	Stenographer.....	480.00
*Myrtle Albaugh	Stenographer.....	340.00

## COLLEGE OF MEDICINE—ADMINISTRATION

E. F. McCampbell	Dean.....	6,000.00
Charles E. Findlay	Secretary to Dean.....	2,000.00
William A. Humphrey	Professor.....	1,500.00
Carl P. Effler	Technical Assistant.....	2,300.00
Margaret Rose	Technical Assistant.....	1,300.00
LeEvelyn Gillam	Stenographer.....	960.00
Helen Shacklett	Typist.....	960.00
Alice Maltby	Clerk.....	900.00
Elsie K. Lyons	Clerk.....	960.00
*Gladys Johnston	Stenographer.....	110.97

## ANATOMY

Francis L. Landacre	Professor and Head.....	5,250.00
Edward C. Buck	Assistant Professor.....	3,000.00
Rollo C. Baker	Assistant Professor.....	3,000.00
R. A. Knouff	Assistant Professor.....	3,000.00
Clarence I. Britt	Instructor.....	1,500.00
Dorothy Searles	Instructor.....	1,200.00
Thomas Evans	Technician.....	1,100.00
Jacob Rosofsky	Student Assistant.....	300.00
Kenneth E. Reighard	Student Assistant.....	300.00
Kenneth E. Reighard	Student Assistant.....	100.00

## BACTERIOLOGY

Charles B. Morrey	Professor.....	4,500.00
William A. Starin	Professor.....	3,437.50
Fred Speer	Assistant Professor.....	2,250.00
R. F. Jukes	Instructor.....	1,600.00
John G. McCrimmon	Assistant.....	1,500.00
George W. Bond	Assistant.....	1,800.00
Harold E. Lowry	Laboratory Assistant.....	780.00

## MEDICINE

J. H. J. Upham	Professor and Head.....	2,000.00
Solomon A. Hatfield	Assistant Professor and Superintendent Hospital.....	3,850.00



Elijah J. Gordon	Assistant Professor and Director Dispensary.....	2,400.00
Joseph W. Leist	Assistant Professor.....	1,500.00
John D. Dunham	Professor.....	300.00
Jacob J. Coons	Professor.....	300.00
Frank C. Wagenhals	Assistant Professor.....	500.00
Elmer G. Horton	Professor.....	500.00
Charles J. Shepard	Assistant Professor.....	300.00
Halbert B. Blakey	Assistant Professor.....	200.00
Raymond A. Ramsey	Instructor.....	400.00
John W. Sheetz	Instructor.....	300.00
E. H. Baxter	Instructor.....	300.00
William Pritchard	Instructor.....	200.00
*H. A. Minthorn	Instructor.....	150.00
C. H. Benson	Instructor.....	100.00
Samuel D. Edelman	Assistant.....	300.00
E. F. Peinert	Assistant.....	200.00
George O. Hoskins	Assistant.....	200.00
John P. Farson	Assistant.....	200.00
Link Murphy	Assistant.....	200.00
Herbert Weirauk	Assistant.....	200.00

## OBSTETRICS

Andrews Rogers	Professor and Head.....	1,250.00
Herman Koerper	Assistant Professor.....	700.00
*Roy E. Krigbaum	Assistant.....	350.00
Thomas A. Vogel	Assistant.....	275.00
*Austin Seeds	Assistant.....	100.00

## OPHTHALMOLOGY AND OTO-LARYNGOLOGY

Hugh G. Beatty	Assistant Professor and Chairman.....	400.00
George C. Schaeffer	Assistant Professor.....	400.00
Andrew W. Prout	Assistant Professor.....	400.00
Arthur M. Hauer	Assistant Professor.....	400.00
John B. Alcorn	Instructor.....	400.00
T. Rees Williams	Instructor.....	400.00
Clarence B. Tanner	Assistant.....	400.00
Robert W. Nosker	Assistant.....	200.00
Russell G. Means	Assistant.....	200.00
Francis W. Thomas	Assistant.....	100.00
Albert D. Frost	Instructor.....	200.00

## PATHOLOGY

Ernest Scott	Professor and Head.....	4,600.00
Carl Spohr	Professor Clinic Pathology.....	3,500.00
Lear H. Van Bushkirk	Instructor.....	1,800.00
Phillip J. Reel	Instructor.....	1,700.00
Mary H. Oliver	Instructor.....	1,600.00
Edith Miller	Instructor.....	1,500.00
Mortimer Banks	Technical Assistant.....	1,100.00
Clinton L. Bryant	Technical Assistant.....	1,100.00
Jay C. Kloeppfer	Assistant (part time).....	150.00

## PHYSIOLOGY

Roy G. Hoskins	Professor.....	5,250.00
A. M. Bleile	Professor.....	3,750.00
Raymond J. Seymour	Assistant Professor.....	3,250.00
Clayton McPeck	Assistant Professor.....	2,750.00
Fred A. Hitchcock	Instructor.....	2,200.00
Edwin P. Durrant	Instructor.....	2,200.00
Milton O. Lee	Instructor.....	1,975.00
Paul H. Charlton	Assistant.....	1,300.00
R. R. Durant	Assistant.....	600.00
M. D. Gamble	Assistant.....	500.00

## PHYSIOLOGICAL CHEMISTRY

Clayton S. Smith	Professor.....	4,250.00
*Harry C. Powelson	Instructor.....	750.00
Anson L. Brown	Assistant.....	1,000.00
M. H. Powelson	Student Assistant.....	150.00
Mildred Gardner	Assistant.....	150.00
*John A. Alexander	Technician.....	500.00
*John B. Brown	Assistant Professor.....	2,250.00
*E. L. Dunn	Physiological Chemist.....	500.00
*Edwin S. Shane	Student Assistant.....	50.00

## PUBLIC HEALTH AND SANITATION

Emery R. Hayhurst	Professor and Head.....	3,250.00
Norma Selbert	Assistant Professor.....	2,500.00
James S. Wilson	Assistant Professor.....	2,500.00

## SURGERY AND GYNECOLOGY

Charles S. Hamilton	Professor and Head.....	500.00
Verne A. Dodd	Professor.....	3,000.00
*Yeatman Wardlow	Professor.....	150.00
Leslie L. Bigelow	Assistant Professor.....	2,250.00
Edwin A. Hamilton	Assistant Professor.....	1,000.00
Hugh J. Means	Assistant Professor.....	900.00
Isaac B. Harris	Assistant Professor.....	300.00
Fred Fletcher	Assistant Professor.....	300.00
A. M. Steinfeld	Assistant Professor.....	300.00
Luke V. Zartman	Assistant Professor.....	700.00
John W. Means	Assistant Professor.....	600.00
Harley O. Bratton	Instructor.....	300.00
William N. Taylor	Instructor.....	300.00
Phillip E. Stiffey	Instructor.....	300.00
George H. Shawaker	Instructor.....	300.00
Holway D. Farrar	Instructor.....	200.00
Ben Kirkendall	Instructor.....	200.00
Milton Jones	Assistant.....	200.00
Wells Teachnor	Assistant.....	200.00
David B. Gilliam	Assistant.....	200.00
Faye Irvin	Technician.....	840.00

## UNIVERSITY HOSPITAL

Lucy V. Ailer	Superintendent of Nurses.....	1,700.00
Ruth K. Snowden	Assistant Superintendent of Nurses.....	1,600.00
Katherine Harris	Dietitian.....	1,500.00
Jean Anderson	Chief Nurse Operating Room.....	1,320.00
*Marion Emery	Supervising Nurse.....	223.33
Julia Browning	Supervising Nurse.....	1,200.00
Verna F. McMillan	Supervising Nurse.....	1,200.00
*Margaret Gorey	Supervising Nurse.....	800.00
Blanca S. Hambleton	Assistant Maternity Supervisor.....	600.00
Paul H. Charlton	Resident Physician.....	720.00
*Lowell Ruff	Assistant Pharmacist (Student).....	450.00
Loraine K. Stephens	Stenographer.....	1,200.00
Alice Taylor	Clerk.....	960.00
John Long	Orderly Operating Room.....	1,140.00
Ernest Long	Janitor.....	1,140.00
Oscar Raver	Janitor.....	1,080.00
*Jessie Haney	Janitress.....	624.00
Charlotte Thum	Janitress.....	750.00
Elizabeth Rourke	Janitress.....	750.00
Clara Dennis	Chief Cook.....	900.00
*Roxie Bowers	Assistant Cook.....	180.00
Lennie Orick	Cook (Maternity Hospital).....	720.00
*Clara Howell	Cook (Pediatrics Hospital).....	150.00



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Julia French	Dishwasher.....	600.00
Nora Massie	Seamstress.....	760.00
Lillie Willis	Housekeeper.....	600.00
*Mildred Hutchings	Chief Night Supervisor.....	1,100.00
Boni Petcoff	Orderly.....	300.00
Frank W. Messer	Orderly.....	300.00
*William Munsey	Assistant Pharmacist (Student).....	150.00
*Janie Sumner	Dishwasher.....	88.55
*Mary Carter	Dishwasher.....	100.00
Martha Morris	Dishwasher.....	600.00
*Ottie Tinsley	Dishwasher.....	450.00
*Martha Davis	Diet Kitchen Maid.....	520.96
*Ruth DeWolfe	Supervising Nurse.....	900.00
*Jeanette Caine	Assistant Cook.....	300.00
*Roxie Oden	Dishwasher and Night Clerk.....	200.00
*Belle Carter	Night Cook.....	242.86
*Helen Z. Ryan	Supervisor of Nurses.....	400.00
*Emma Blair	Maid.....	97.26
*Jesteen Crump	Maid.....	83.87
*Mary E. Carter	Dining Room Maid.....	81.29
*Edith Westervelt	Supervising Nurse.....	100.00

## COLLEGE OF PHARMACY

Clair A. Dye	Dean and Professor.....	4,500.00
Clarence M. Brown	Assistant Professor.....	2,750.00
William S. Stevens	Instructor.....	2,000.00
Charles L. Williams	Instructor.....	1,750.00
William E. Keyser	Instructor.....	1,200.00
*James M. Moore	Student Assistant.....	66.00
William A. Morse	Student Assistant.....	200.00
Leslie W. Reese	Student Assistant.....	200.00
Walter C. Grudier	Student Assistant.....	200.00
*John A. Bell	Student Assistant.....	134.00
*Harold L. Bejack	Student Assistant.....	134.00

## COLLEGE OF VETERINARY MEDICINE

David S. White	Dean and Professor.....	6,000.00
Oscar V. Brumley	Professor Veterinary Surgery and Director of Clinics..	5,000.00
Leonard W. Goss	Professor of Veterinary Pathology.....	5,000.00
*Septimus Sisson	Professor of Comparative Anatomy.....	375.00
James D. Grossman	Professor of Veterinary Anatomy.....	3,250.00
James H. Snook	Professor of Veterinary Surgery.....	3,250.00
John N. Shoemaker	Assistant Professor.....	2,700.00
Walter R. Hobbs	Assistant Professor.....	2,700.00
Russell E. Rebrassier	Instructor.....	2,400.00
Ralph A. Hendershott	Instructor.....	1,600.00
Mabel E. Moran	Secretary to Dean.....	1,200.00
Fay G. Adams	Clerk.....	920.00
E. L. Clements	Technician.....	1,200.00
William H. Walker	Groom.....	1,200.00
*Robert Millington	Groom.....	600.00
*Olen R. Wimer	Groom.....	587.10
*Dorwin W. Ashcroft	Instructor.....	1,500.00
Mabel Spencer	Clerk.....	80.00

## GRADUATE SCHOOL

William McPherson	Dean.....	6,000.00
Alice A. Moran	Secretary to Dean.....	1,400.00
Donald B. Anderson	Fellow.....	500.00
Marion W. Caskey	Fellow.....	500.00
Clarence E. Erffmyer	Fellow.....	498.00
Paul R. Farnsworth	Fellow.....	500.00
George P. Hoff	Fellow.....	500.00

Robert L. Morton	Fellow.....	500.00
Samuel Renshaw	Fellow.....	500.00
Ruhl J. Bartlett	Scholar.....	300.00
Beulah B. Clark	Scholar.....	300.00
Mary E. Conrad	Scholar.....	300.00
Carl M. Frasure	Scholar.....	300.00
Frank M. Hull	Scholar.....	300.00
Howard W. Johnson	Scholar.....	300.00
Harold C. Lewis	Scholar.....	300.00
Mary F. McCarty	Scholar.....	300.00
Ralph W. Ogan	Scholar.....	300.00
Flora E. Olnhausen	Scholar.....	300.00
Louis A. Papenhagen	Scholar.....	300.00
Martha C. Pollock	Scholar.....	300.00
Edna Spatz	Scholar.....	300.00
Frances E. Summy	Scholar.....	300.00
Siong Ceh Sung	Scholar.....	300.00
George W. White	Scholar.....	300.00
Elizabeth F. Yager	Scholar.....	300.00
Arthur J. Yaney	Scholar.....	300.00
Kenneth L. Smoke	Scholar.....	300.00
Margaret F. Shaw	Scholar.....	300.00
Paul W. Stansbury	Scholar.....	300.00

## COMMENCEMENT

Karl H. Hoenig	Director of Music.....	900.00
Earl Hopkins	Director of Orchestra.....	300.00

## LIBRARY

Olive Jones	Librarian.....	3,000.00
*C. W. Reeder	Reference Librarian.....	750.00
Maud D. Jeffrey	Reference Librarian.....	2,400.00
Gertrude Kellicott	Accession Librarian.....	2,400.00
Bertha Schneider	Head Cataloger.....	2,400.00
Dorothy I. Higgins	Cataloger.....	2,250.00
Alice D. McKee	Cataloger.....	2,000.00
Edna E. Davis	Library Assistant.....	2,208.33
Anna Green	Library Assistant.....	1,800.00
Rita M. Buxton	Library Assistant.....	1,570.00
Susan Marksbury	Library Assistant.....	1,400.00
*Helen K. Laughlin	Library Assistant.....	275.00
Ethel M. Miller	Library Assistant.....	1,200.00
Mildred V. Watson	Library Assistant.....	1,366.66
Miriam Beckes	Library Assistant.....	1,080.00
Adah P. Smith	Library Assistant.....	1,080.00
Ellen Michael	Library Assistant.....	1,380.00
*Adelaide Hibbard	Library Assistant.....	180.00
Helen A. Jones	Library Assistant.....	1,080.00
Marie Hopkins	Library Assistant.....	1,060.00
W. R. Janeway	Library Assistant.....	600.00
Karl D. Way	Night Assistant.....	600.00
Frank K. Guthrie	Library Assistant.....	100.00
W. C. George	Cheek Room Assistant.....	1,440.00
Earl Brown	Library Assistant.....	540.00
Pauline Lehman	Library Assistant.....	360.00
*F. Marian Smith	Library Assistant.....	60.00
Florence Reese	Library Assistant.....	360.00
Harry Appler	Library Assistant.....	360.00
Frances Remley	Library Assistant.....	270.00
*Eldra W. Hartley	Library Assistant.....	150.00
Dorothy Arbuckle	Library Assistant.....	360.00
William T. Purdum	Library Assistant.....	2,000.00
William Lovell	Night Assistant.....	600.00



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*Adah V. Morris	Cataloger.....	1,558.33
Dorothy Wilkins	Library Assistant.....	1,020.00
*Margaret Green	Cataloger.....	125.00
*Maude E. Avery	Cataloger.....	1,583.33
Jane Kintner	Library Assistant.....	1,200.00
*Harriet Chantler	Library Assistant.....	500.00
*Carl Trocger	Library Assistant.....	350.00
*Miriam Heckelman	Library Assistant.....	858.00
*Donald M. Gibbs	Library Assistant.....	270.00
*Fred E. Fuller	Library Assistant.....	270.00
*Ralph H. Klapp	Library Assistant.....	270.00
*Margaret Y. Green	Library Assistant.....	900.00
*Gladys Capell	Library Assistant.....	1,250.00
*John W. Seely	Library Assistant.....	270.00
*Mary T. Hugentugler	Library Assistant.....	810.00
*Mildred Hindman	Library Assistant.....	120.00
*J. Keith Loudon	Library Assistant.....	270.00
*Clarence C. Myers	Library Assistant.....	270.00
*Evelyn Hensel	Library Assistant.....	150.00
*Lillian H. Rose	Library Assistant.....	405.00
*Max W. Johnson	Library Assistant.....	90.00
*Elsie Tidyman	Library Assistant.....	90.00

## MILITARY SCIENCE

A. M. Shipp	Commandant.....	500.00
Wyllie T. Conway	Assistant Professor.....	250.00
John N. Hauser	Assistant Professor.....	250.00
Louis A. Kunzig	Assistant Professor.....	250.00
Paul A. Barry	Assistant Professor.....	250.00
R. C. Birmingham	Assistant Professor.....	250.00
Paul M. Ellis	Assistant Professor.....	250.00
Edward G. Herlihy	Assistant Professor.....	250.00
George E. Jacobs	Assistant Professor.....	250.00
Hiram G. Fry	Assistant Professor.....	250.00
Clell B. Perkins	Assistant Professor.....	250.00
R. D. Delehanty	Assistant Professor.....	250.00
Desmond O'Keefe	Assistant Professor.....	250.00
Lewis B. Hershey	Assistant Professor.....	250.00
James C. Welch	Assistant Professor.....	250.00
Harry R. Beery	Assistant Professor.....	250.00
Leaster C. Ogg	Assistant Professor.....	250.00
Robert L. Tavenner	Assistant Professor.....	250.00
Gustav Bruder	Band Leader.....	500.00
Jacqueline Ulmer	Stenographer.....	960.00
*Helen Mendenhall	Stenographer.....	160.00
*Ruth F. Burke	Stenographer.....	34.67
*Olga S. Krill	Stenographer.....	762.67
Chester A. Horne	Assistant Professor.....	250.00
Chester H. Smith	Assistant Professor.....	250.00
*Clara Offenbacher	Stenographer.....	467.10
*James C. Howard	Janitor.....	80.81

## PHYSICAL EDUCATION

L. W. St. John	Professor.....	5,000.00
J. H. Nichols	Professor.....	5,500.00
J. W. Wilce	Professor.....	2,500.00
F. R. Castleman	Professor.....	1,500.00
Samuel H. Cobb	Assistant Professor.....	3,000.00
George M. Trautman	Assistant Professor.....	1,500.00
Bernard F. Mooney	Instructor.....	2,000.00
*Lee G. Staley	Instructor.....	1,350.00
V. R. Billingsley	Secretary to Department.....	1,900.00
Henry D. Taylor	Alumni Recorder.....	1,500.00

*A. W. Bachman	Student Assistant.....	116.00
*Phyllis E. Gauley	Stenographer.....	733.33
Robert Greuninger	Assistant (Part time).....	600.00
Walter L. Pemberthy	Student Assistant.....	300.00
*Carl Edward Tishler	Student Assistant.....	150.00
*Louis A. Kunzig	Instructor.....	54.00
Lydia Clark	Professor.....	3,500.00
Gertrude F. Jones	Assistant Professor.....	2,950.00
Gladys Palmer	Assistant Professor.....	2,400.00
Esther Gilman	Instructor.....	2,200.00
Katherine Hersey	Instructor.....	2,127.77
Dorothy Sumption	Instructor.....	1,783.33
Margaret Cheney	Instructor.....	1,600.00
Alma Vulp	Pianist.....	800.00
Elizabeth Borger	Student Assistant.....	300.00
Nellie Kramer	Stenographer.....	960.00
Louise Ortman	Maid.....	840.00
*Emily Clayton	Maid.....	300.00
Elizabeth P. Maris	Instructor (Summer Quarter).....	300.00
*Marian Johnson	Instructor.....	1,650.00
*Virginia P. Hill	Instructor.....	1,275.00
*Irma Wormser	Stenographer.....	240.00
*Nellie Robbins	Maid.....	420.00

## PRESIDENT'S OFFICE

Katherine A. Vogel	Executive Clerk.....	2,000.00
Margaret Morrison	Stenographer.....	1,200.00
Edith M. Auch	Auditor Student Organizations (Part time).....	600.00

## BUSINESS MANAGER'S OFFICE

Carl E. Steeb	Secretary Board of Trustees.....	6,000.00
Ina Shirk	Chief Clerk.....	1,500.00
R. M. Royer	Purchasing Agent.....	3,600.00
Mary E. Duffy	Stenographer.....	1,500.00
Helena Sands	Typist.....	1,080.00
Mildred Scott	Clerk.....	1,020.00
Charles A. Kuntz	Comptroller.....	3,600.00
Floris D. Hane	Cashier.....	1,800.00
Ruth E. Waters	Assistant Cashier.....	1,200.00
Mary Kraus	Auditor.....	1,800.00
Anna O'Rourke	Stenographer.....	1,200.00
Dorothy Mills	Clerk.....	957.40
Gladys Steele	Stenographer.....	960.00
Florence Naile	Bookkeeper.....	1,800.00
Catherine Cottingham	Clerk.....	1,200.00
Blanche Gillespie	Clerk.....	963.33
Margaret Gooch	Typist.....	960.00
*Katherine Taylor	Office Assistant.....	1,000.00
*W. R. Kruse	Inventory Clerk.....	1,029.17
*Howard L. Hamilton	Clerk.....	125.00
Hugh Hardy	Clerk.....	1,500.00
G. J. Hoesch	Clerk.....	1,260.00
Ernest Ford	Mail Carrier.....	1,260.00

## REGISTRAR'S OFFICE

Edith D. Cockins	Registrar.....	3,750.00
Helen Clarke	Assistant Registrar.....	2,200.00
Frances Rannells	Assistant to Registrar.....	866.00
Florence Shride	Assistant to Registrar.....	1,080.00
Elizabeth Allen	Assistant to Registrar.....	1,020.00
*Marguerite Von Gerichten	Assistant to Registrar.....	674.52
*Floy Core	Assistant to Registrar.....	298.87



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*Esther Head	Assistant to Registrar.....	298.87
Virginia Michel	Assistant to Registrar.....	1,400.00
Frances Dick	Assistant to Registrar.....	1,300.00
Katherine Ferris	Assistant to Registrar.....	1,020.00
Margaret Jerman	Assistant to Registrar.....	1,020.00
Florence Woodrow	Assistant to Registrar.....	1,020.00
Marguerite Fox	Assistant to Registrar.....	1,020.00
*Alice Lawrence	Assistant to Registrar.....	340.00
Bonnie Woodbury	Chief Transcript Clerk.....	1,400.00
*Elizabeth Richards	Assistant to Registrar.....	665.00
*Mildred Hindman	Assistant to Registrar.....	425.00
Ethyl Woodbury	Chief Schedule Clerk.....	1,800.00
*Miriam Cherry	Assistant to Registrar.....	170.00
*Jean Kellenberger	Assistant to Registrar.....	595.00
Mildred Mills	Assistant to Registrar.....	1,014.52
*Martha J. Hillhouse	Assistant to Registrar.....	432.26
*Ruth Agler	Assistant to Registrar.....	550.00
*Mabel Walters	Assistant to Registrar.....	85.00
Clara Miller	Assistant University Editor.....	1,900.00
*Mary E. Warren	Assistant to Registrar.....	249.52
*Bertha Randall	Assistant to Registrar.....	765.00

## ENTRANCE BOARD

B. L. Stradley	Assistant Professor of Education and Univ. Exam....	3,250.00
Mary E. Morris	Clerk.....	1,500.00
Bessie Plummer	Stenographer.....	960.00
*Sarah Meriam	Stenographer (half time).....	360.00
*Ruth E. Esler	Part-time Stenographer.....	120.00

## DEAN OF WOMEN

Elisabeth Conrad	Dean of Women.....	3,600.00
Jessica Foster	Assistant Dean of Women.....	2,425.00
*Beatrice Babb	Stenographer.....	261.00
*Trava MacInnis	Stenographer.....	816.00

## STUDENT HEALTH SERVICE

H. S. Wingert	Director.....	4,500.00
Richard Kimpton	Assistant Director.....	3,250.00
*Lucile Young	Nurse.....	1,333.33
Maude M. Eckhardt	Clerk.....	1,200.00

## STORES AND RECEIVING

F. E. Jones	Director.....	3,500.00
Blanche Sullivan	Clerk.....	1,560.00
Mabel Clum	Typist.....	1,320.00
James Lawson	Checking Clerk.....	1,560.00
J. R. Remy	Tool Room (Laborer).....	1,200.00
*Kenneth Edgar	Laborer.....	180.00
*C. A. Starky	Laborer.....	900.00
*Allen P. McManigal	Ringling Chimes.....	270.00

## ENGINEER'S OFFICE

William C. McCracken	Superintendent of Buildings and Grounds.....	5,000.00
Earl R. Cohee	Clerk.....	1,500.00
*Claire Elk	Stenographer.....	500.00
*Helen J. Bowman	Stenographer.....	770.00

## LIGHT, HEAT, AND POWER

Thomas D. Banks	Superintendent Power Plant.....	3,800.00
John P. Covan	Master Mechanic.....	2,400.00
W. H. Case	Assistant Chief Engineer.....	2,040.00

Fred Brewer	Engineer.....	1,860.00
W. D. Hicks	Engineer.....	1,860.00
*J. F. Dill	Engineer.....	1,395.00
S. Lowery	Fireman.....	1,680.00
*Lawrence Mack	Fireman.....	1,192.26
Charles Dick	Fireman.....	1,680.00
Frank Asher	Fireman.....	1,680.00
William Anderson	Craneman.....	1,920.00
N. Ivan Paschall	Drag Line Operator.....	1,920.00
R. A. Bowers	Laborer.....	1,500.00
*Charles Mercer	Laborer.....	1,045.00
*Irwin Walker	Wiper.....	810.00
I. C. Reasoner	Blacksmith.....	1,620.00
Charles Reasoner	Helper to Blacksmith.....	1,200.00
George E. Shepherd	Steamfitter.....	2,040.00
Mike Ycager	Steamfitter.....	1,920.00
George Nye	Steamfitter.....	1,920.00
C. M. Shepherd	Steamfitter's Helper.....	1,260.00
George Dillahun	Electrician.....	1,920.00
Earl Achey	Assistant Electrician.....	1,680.00
C. T. Pippin	Assistant Electrician.....	1,620.00
B. A. LeBay	Boiler Repair Man.....	1,620.00
A. O. Kaiser	Auto Mechanic and Helper.....	1,800.00
*Elmer L. Cavender	Electrician.....	1,311.29
*James A. Kirkwood	Fireman.....	980.00
*Eugene Miller	Engineer.....	1,040.00
*Milford Bainter	Engineer.....	439.17
*Fred R. Rhodes	Fireman.....	396.67
Thomas Scott	Ash Wheeler.....	960.00
J. A. Colvin	Ash Wheeler.....	960.00
*James Bailey	Ash Wheeler.....	160.00
W. H. Kear	Ash Wheeler.....	960.00
Thomas B. Clark	Ash Wheeler.....	920.00
*Harry Cashien	Laborer.....	360.00
*F. A. Moore	Laborer.....	880.00
Domonic Capretta	Laborer.....	960.00
*Thomas Graham	Plumber.....	100.00
*John Armstrong	Laborer.....	40.00
*Francy McGinnis	Laborer.....	520.00
*Domonic Benedetti	Laborer.....	360.00
*Thomas Findley	Laborer.....	160.00

## BETTERMENT OF BUILDINGS

John Kraner	Carpenter.....	2,220.00
E. I. Martin	Carpenter.....	1,920.00
Philo Felker	Carpenter.....	1,480.00
Charles Blesch	Carpenter.....	1,920.00
E. A. Hague	Carpenter.....	1,920.00
R. C. Kaiser	Plumber.....	2,400.00
E. Inscho	Plumber's Assistant.....	1,800.00
Ralph Bobb	Plumber's Assistant.....	1,500.00
S. R. Sher	Heat Regulating Man.....	1,800.00
Max Lehman	Painter.....	1,500.00
James Brain	Painter.....	1,260.00
*Roderick Farley	Painter's Helper.....	270.00
H. R. Johnson	Tinner.....	1,720.00
C. D. Lowry	Laborer.....	1,140.00
*Glen O. Davis	Painter.....	300.00
*Fred M. Dustman	Painter.....	210.00
Earling Howard	Painter.....	1,328.06
*Delmer Devese	Painter's Helper.....	540.00
*William D. Beach	Painter.....	630.00
*Edward W. Stratton	Painter.....	580.65



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*Ernest Limes	Plumber.....	1,400.00
*Benjamin H. Oyer	Plumber's Helper.....	875.00
*Otis Betts	Painter.....	297.50
*Jesse Barr	Painter.....	267.00
*L. A. Christian	Painter's Helper.....	255.00
*W. E. Steel	Carpenter.....	341.33

## POLICE AND WATCHMEN

William North	Day Policeman.....	1,440.00
H. S. Brown	Night Policeman.....	1,350.00
Charles G. Kalb	Traffic Officer.....	1,260.00
C. F. Reasoner	Supervisor of Watchmen.....	1,260.00
H. B. Case	Night Watchman.....	1,260.00
Alphonso Case	Night Watchman.....	1,260.00
C. D. Conaway	Night Watchman.....	1,260.00
Charles C. Clayton	Night Watchman.....	1,260.00
Thomas Bortle	Night Watchman.....	1,260.00
H. M. Cole	Night Watchman.....	1,260.00
*J. T. Daniels	Night Watchman (retired).....	360.00
*W. F. Mahaffey	Night Watchman (retired).....	400.00

## ROADS AND GROUNDS

Paul H. Elleman	Engineer.....	2,700.00
Earl Bilderback	Foreman of Campus.....	1,680.00
Frank Funk	Arborator.....	1,260.00
John Rhone	Teamster.....	1,080.00
J. Fredo	Laborer.....	1,080.00
L. Stewart	Laborer.....	1,080.00
J. Hobert	Laborer.....	1,080.00
J. Stainbrook	Laborer.....	1,080.00
B. E. Stahl	Laborer.....	1,080.00
A. Chesbro	Laborer.....	1,080.00
Leo Moran	Truck Driver.....	1,200.00
Robert Dunn	Laborer.....	1,140.00
*Harold Esper	Laborer.....	558.00
*James T. Shidecker	Engineer.....	700.00
*John H. Elleman	Engineer's Helper.....	378.39
*Paul Raebel	Laborer (Student).....	100.00

## JANITORS

John O'Rourke	Inspector of Buildings and Janitors.....	1,500.00
C. M. Hicks	Repair and Handy Man.....	1,200.00
Walter Penn	Janitor.....	1,140.00
W. M. Stahl	Janitor.....	1,140.00
William Daehler	Janitor.....	1,140.00
Harry Chantler	Janitor.....	1,140.00
John Tordiff	Janitor.....	1,140.00
A. D. Grayson	Janitor.....	1,140.00
S. A. Williams	Janitor.....	1,140.00
R. M. Moore	Janitor.....	1,140.00
Oliver Smith	Janitor.....	1,140.00
L. F. Jordan	Janitor.....	1,140.00
*J. C. Ludlum	Janitor.....	950.00
W. Curry	Janitor.....	1,140.00
W. W. Smith	Janitor.....	1,140.00
Dan Brock	Janitor.....	1,140.00
*Robert Petrie	Janitor.....	570.00
*G. P. Royston	Janitor.....	855.00
Olaf Christianson	Janitor.....	1,140.00
J. R. Butler	Janitor.....	1,140.00
L. S. Hitchcock	Janitor.....	1,140.00
C. M. Shelton	Janitor.....	1,140.00

Forest Spencer	Janitor.....	1,140.00
Elmer E. Smith	Janitor.....	1,140.00
C. A. Hopkins	Janitor.....	1,140.00
Warren Maberry	Janitor.....	1,140.00
G. R. Pettibone	Janitor.....	1,140.00
Elmer McDowell	Janitor.....	1,140.00
M. Murphy	Janitor.....	1,140.00
John M. Wallace	Janitor.....	1,140.00
Edward Watson	Janitor.....	1,140.00
Floyd Grayem	Janitor.....	1,140.00
*F. C. Radford	Janitor.....	665.00
Willis Abbott	Janitor.....	1,140.00
George Wilson	Janitor.....	1,140.00
*Charles Lyons	Janitor.....	855.00
M. N. Cook	Janitor.....	930.00
J. W. Brown	Janitor.....	1,080.00
William Goff	Janitor.....	1,080.00
James Merrill	Janitor.....	1,100.00
E. J. Nutt	Janitor.....	1,080.00
C. A. Hoppler	Janitor.....	1,080.00
*Louis Trotter	Janitor.....	810.00
James Gormley	Janitor.....	1,080.00
H. Clemons	Janitor.....	1,080.00
M. F. Cooney	Janitor.....	1,080.00
Joseph P. Dickson	Janitor.....	1,080.00
George E. Whitmer	Janitor.....	1,080.00
James E. Harrington	Janitor.....	1,080.00
A. L. Robison	Janitor.....	1,080.00
*William Jones	Janitor.....	219.00
David L. James	Janitor.....	1,080.00
Arch F. Thomas	Janitor.....	1,080.00
Clara Derflinger	Janitress.....	840.00
Della Lee	Janitress.....	780.00
Lou Cornett	Janitress.....	780.00
Cora Paulsell	Janitress.....	780.00
Mary Powers	Matron of Rest Room.....	780.00
M. S. Harvey	Elevator Man.....	660.00
Richard Brandon	Janitor (retired).....	480.00
John B. Truitt	Janitor.....	1,080.00
R. G. Glenn	Janitor.....	1,080.00
*Ruth Paulsell	Janitress.....	427.74
Cunningham Ashenburt	Janitor.....	1,072.58
*James E. Holliday	Janitor.....	913.23
*John M. Conti	Janitor.....	1,045.00
*Lawrence J. McKenna	Janitor.....	1,011.29
*William Cavanaugh	Janitor.....	1,023.55
*William Eviston	Janitor.....	950.00
*Isaac Errington	Janitor.....	804.33
*Charles H. Carter	Janitor.....	873.00
*John S. Long	Janitor.....	855.00
*Chester Potts	Janitor.....	190.00
*George Perkins	Janitor.....	760.00
*J. R. Holliday	Elevator Operator.....	480.00
*William Pohle	Janitor.....	285.00
*Viola Parsley	Janitress.....	283.21
*John F. Hill	Janitor.....	270.00
*Joe Walker	Janitor.....	285.00
*H. E. Goldston	Janitor.....	138.87
*Peter Marquette	Janitor.....	285.00
*Thad. S. Blackwood	Janitor.....	285.00
*William H. Shelton	Janitor.....	266.00
*Fred E. Henkel	Janitor.....	224.83
*George W. Newman	Janitor.....	190.00



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*Robert Sams	Janitor.....	104.52
*Owen T. Keenan	Janitor.....	128.71
Michael J. Murphy	Janitor.....	95.00

## LAUNDRY

Myrtle Faught	Laundress.....	1,140.00
*Bert Faught	Launderer.....	150.00
Dolly Gray	Laundress.....	780.00
Clara Williams	Laundress.....	780.00
*Jennie Roberts	Laundress.....	65.00
Emma Munyan	Laundress.....	780.00
*Elizabeth Westenhaver	Laundress.....	600.00
*Anna Krone	Laundress.....	520.00
*Inez Toy	Laundress.....	101.83
*Rosie Long	Laundress.....	260.00
*Nellie Gilmour	Laundress.....	153.83

## UNIVERSITY ARCHITECT

J. N. Bradford	University Architect.....	3,700.00
H. F. Reichard	Chief Draftsman.....	3,500.00
C. F. Mayer	Draftsman.....	2,800.00
P. E. Crider	Draftsman.....	2,500.00
A. H. Mickey	Superintendent of Construction.....	2,700.00
Herbert Baumer	Professor (half time).....	2,000.00
Elsie F. Edwards	Clerk.....	1,500.00
D. J. Demorest	University Chemist.....	500.00

## DENTAL CLINIC

Frank C. Starr	Instructor.....	1,100.00
Earl G. Jones	Instructor.....	1,000.00
Webster M. Baker	Instructor.....	975.00
Wendell D. Postle	Demonstrator.....	1,041.00
Harvey C. Highman	Demonstrator.....	1,041.00
Allie F. Harness	Clerk.....	1,000.00
*Jocelyn Gillam	Clerk.....	38.71
Virginia L. Moore	Stenographer.....	960.00
Sue Merrill	Janitress.....	600.00
Edwin W. Martindale	Instructor.....	900.00
Edna Wallace	Stenographer.....	960.00
*W. D. Postle	Instructor.....	84.00
*C. H. Highman	Instructor.....	84.00

## UNIVERSITY PRESS

R. W. Hodgson	Compositor.....	2,444.00
C. D. Kalb	Compositor.....	2,392.00
George Maggioro	Compositor.....	2,340.00
Frank A. Huff	Compositor.....	2,288.00
W. R. Stephens	Compositor.....	2,288.00
G. F. Rodocker	Pressman.....	2,288.00
W. J. Munroe	Pressman.....	2,288.00
Clyde J. Hodgson	Apprentice.....	1,658.80
Charles W. Thompson	Foreman of Bindery.....	2,444.00
William Taylor	Bookbinder.....	2,286.00
Clara B. Harding	Bindery Woman.....	1,352.00
Anna B. Logan	Bindery Woman.....	1,092.00
*Ella Falkenbach	Bindery Woman.....	329.00
Gladys Kavanaugh	Stenographer.....	1,020.00
*J. Verre Jenkins	Linotype Operator.....	1,334.00
*Florien Weidmer	Bindery Worker.....	667.33
*E. G. Patterson	Linotype Operator.....	571.33
*W. H. Ziebold	Linotype Operator.....	381.34
Clara L. Baker	Bookkeeper.....	1,260.00

## THE OHIO STATE UNIVERSITY

## WAREHOUSE—STORES AND RECEIVING

Earl Conway	Stock Clerk.....	1,460.00
Charles Pugh	Stock Clerk.....	1,140.00
H. O. Baker	Laborer.....	1,140.00
Frank Langworthy	Laborer.....	1,140.00
D. R. Masters	Small Animal Keeper.....	1,140.00
*Leona Cohee	Clerk.....	90.00
*Wilma L. Mulby	Stenographer.....	880.00

## LABORATORY SUPPLY STORE

C. W. McClintock	Storekeeper.....	3,000.00
H. W. Miller	Pharmacist.....	2,000.00
L. S. Gormley	Pharmacist.....	2,000.00
Frank D. Brill	Pharmacist.....	2,000.00
M. L. Babb	Pharmacist.....	2,000.00
R. B. Leonard	Glass Blower.....	2,000.00
H. L. Allison	Laborer.....	1,400.00
Frank Westervelt	Laborer.....	1,140.00
Robert Dowd	Laborer.....	1,020.00
Clara Fleischer	Stenographer.....	1,080.00
*Arlene M. Ebenhack	Clerk.....	240.00
William E. Leonard	Glass Blower's Helper.....	1,080.00
*Mary Hirst	Stenographer.....	681.29

## AGRICULTURAL EDUCATION—SMITH HUGHES

W. F. Stewart	Professor.....	1,600.00
H. W. Nisonger	Assistant Professor.....	3,300.00
H. G. Kenestrick	Assistant Professor.....	2,950.00
A. C. Kennedy	Instructor.....	2,700.00
E. O. Bolender	Instructor.....	2,700.00
J. B. McClelland	Instructor.....	2,700.00
F. J. Salter	Instructor.....	2,700.00
R. G. McMurray	Instructor.....	2,650.00
*W. F. Bruce	Graduate Assistant.....	440.00
Mary Schimmel	Stenographer.....	1,080.00

## HOME ECONOMICS—SMITH HUGHES

Maude G. Adams	Professor.....	1,800.00
*Henrietta Gromme	Assistant Professor.....	450.00
Clara Bancroft	Instructor.....	2,100.00
Almeda Jones	Instructor.....	2,000.00
*Jane Hinkley	Instructor.....	366.00
Hazel Huston	Instructor.....	2,100.00
Marie Kuglen	Stenographer.....	1,140.00
*Ida Patterson	Assistant Professor.....	2,250.00
*Susan Roof	Instructor.....	1,833.33

## VOCATIONAL EDUCATION—SMITH HUGHES

D. J. MacDonald	Professor.....	4,600.00
*R. W. Kent	Assistant Professor.....	4,125.00
L. A. Flagler	Assistant Professor.....	3,600.00
*D. B. Finch	Instructor.....	3,209.00
*R. W. Jenkins	Instructor.....	2,750.00
Martha Okey	Secretary.....	1,200.00
*Herbert D. Williams	Instructor.....	225.00



APPENDIX IV  
THE WORK OF INSTRUCTORS—1924-1925

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
<b>ACCOUNTING</b>												
Elements of Accounting.....	401	5	21	401	5	231	401	5	191	401	5	85
Elements of Accounting.....	402	5	12	402	5	85	402	5	173	402	5	142
Principles of Accounting.....	601	5	13	601	5	55	601	5	47	601	5	71
Principles of Accounting.....	.....	.....	.....	602	5	44	602	5	18	602	5	25
Cost Accounting.....	.....	.....	.....	603	3	38	603	3	32	.....	.....	.....
Cost Accounting.....	.....	.....	.....	.....	.....	.....	604	3	37	604	3	29
Problems in Cost Accounting.....	.....	.....	.....	605	3	17	.....	.....	.....	.....	.....	.....
Institutional Accounting.....	.....	.....	.....	.....	.....	.....	606	5	29	.....	.....	.....
Auditing.....	.....	.....	.....	607	2	37	.....	.....	.....	.....	.....	.....
Auditing.....	.....	.....	.....	.....	.....	.....	608	2	37	.....	.....	.....
Industrial Accounting.....	.....	.....	.....	.....	.....	.....	609	3	11	.....	.....	.....
Income Tax Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	611	2	54
Constructive Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	612	4	48
Accounting Practice.....	.....	.....	.....	613	4	39	.....	.....	.....	.....	.....	.....
Accounting Practice.....	.....	.....	.....	.....	.....	.....	614	4	42	.....	.....	.....
Business Statements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	616	3	82
Managerial Accounting.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	617	3	15
Research in Accounting.....	.....	.....	.....	801	1-5	3	802	1-5	3	803	1-5	4
Total.....	.....	.....	46	.....	.....	549	.....	.....	620	.....	.....	555
<b>AGRICULTURAL CHEMISTRY</b>												
General Agricultural Chemistry.....	.....	.....	.....	401	5	61	.....	.....	.....	401	5	76
Household Chemistry.....	.....	.....	.....	402	5	70	402	5	54	.....	.....	.....
Household Chemistry.....	.....	.....	.....	.....	.....	.....	403	5	51	403	5	59
General Biological Chemistry.....	.....	.....	.....	601	5	7	.....	.....	.....	.....	.....	.....
Food Inspection and Analysis.....	602	5	4	602	5	0	.....	.....	.....	.....	.....	.....
Food Inspection and Analysis.....	.....	.....	.....	.....	.....	.....	603	5	0	.....	.....	.....
Dairy Chemistry.....	.....	.....	.....	604	5	2	.....	.....	.....	.....	.....	.....
Dairy Chemistry.....	.....	.....	.....	.....	.....	.....	605	5	2	.....	.....	.....

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Advanced Dairy Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	5	1
Chemistry of Nutrition.....	607	5	9	.....	.....	.....	607	5	6	.....	.....	.....
Animal Nutrition.....	.....	.....	.....	.....	.....	.....	608	5	0	.....	.....	.....
Plant Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	801	5	7
Special Problems.....	802	5	1	802	5	1	802	5	4	802	5	6
Research .....	.....	.....	.....	803	5	0	803	5	5	803	5	7
					10			10			10	
					or			or			or	
					15			15			15	
Seminary .....	.....	.....	.....	804	1	0	804	1	6	804	5	7
AGRICULTURAL EDUCATION												
Teaching of Vocational Agriculture in Secondary Schools.....	401	5	9	401	5	10	401	5	13	401	5	2
Observation of the Teaching of Vocational Agriculture .....	.....	.....	.....	402	5	13	402	5	9	402	5	11
Supervised Teaching of Vocational Agriculture .....	.....	.....	.....	403	5	13	403	5	9	403	5	11
Special Methods of Teaching Vocational Agriculture in Secondary Schools.....	601	5	9	601	5	6	601	5	10	601	5	7
History of Agricultural Education.....	.....	.....	.....	602	5	1	.....	.....	.....	602	5	1
Agricultural Education and the Vocational Educational Movement.....	.....	.....	.....	.....	.....	.....	603	5	1	.....	.....	.....
Special Problems.....	801	5	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
AGRICULTURAL ENGINEERING												
Field Machinery.....	.....	.....	.....	.....	.....	.....	400	5	20	.....	.....	.....
Field Machinery.....	.....	.....	.....	401	5	42	401	5	46	401	5	15
Advanced Field Machinery.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	3	3
Farm Motors and Tractors.....	404	5	5	.....	.....	.....	404	5	19	.....	.....	.....
Advanced Farm Power and Power Machinery .....	.....	.....	.....	603	5	16	.....	.....	.....	.....	.....	.....
Household Mechanics.....	.....	.....	.....	406	5	58	.....	.....	.....	406	5	50
Farm Utilities.....	.....	.....	.....	.....	.....	.....	405	3	12	.....	.....	.....
Farm Drainage.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	5	13
Plan Reading.....	.....	.....	.....	402	2½	49	402	2½	42	.....	.....	.....
Advanced Plan Reading.....	.....	.....	.....	.....	.....	.....	403	3	17	403	3	9
Farm Structures.....	.....	.....	.....	602	5	8	.....	.....	.....	602	5	5
Special Problems.....	.....	.....	.....	701	3	6	701	5	10	701	5	7



# AMERICAN HISTORY

History of the United States (1763-1840).....	301	3	33	.....	.....	.....	.....	.....	.....	.....	.....
Political Parties in the United States.....	306	2	12	.....	.....	.....	.....	.....	.....	.....	.....
History of the United States (1763-1850).....	401	5	36	401	5	406	401	5	222	401	290
History of the United States (1850-1921).....	402	5	35	402	5	109	402	5	311	402	182
General Survey of United States History (1763-1850).....	403	5	26	.....	.....	.....	403	5	38	.....	.....
General Survey of United States History (1850-1922).....	.....	.....	.....	404	5	29	.....	.....	.....	404	39
Political Parties in the United States.....	.....	.....	.....	405	3	32	.....	.....	.....	405	70
Colonial Period of Latin America.....	.....	.....	.....	408	5	16	.....	.....	.....	.....	.....
History of the Latin-American Republics....	409	5	21	.....	.....	.....	409	5	29	.....	.....
The History of Ohio.....	.....	.....	.....	.....	.....	.....	412	3	33	.....	.....
The Struggle for North America.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	413	56
Introduction to Historical Research.....	601	3	14	601	3	11	.....	.....	.....	.....	.....
Constitutional History of the United States to 1837.....	.....	.....	.....	602	3	15	.....	.....	.....	.....	.....
Constitutional History of the United States since 1837.....	.....	.....	.....	.....	.....	.....	603	3	21	.....	.....
The Slavery Controversy in the United States.....	.....	.....	.....	604	3	13	.....	.....	.....	.....	.....
Reconstruction and the New South (1863-1920).....	.....	.....	.....	.....	.....	.....	605	3	20	.....	.....
American Diplomacy since the Civil War.....	607	3	25	.....	.....	.....	.....	.....	.....	.....	.....
Recent History of United States (1875-1898)...	.....	.....	.....	608	5	61	.....	.....	.....	.....	.....
Recent History of United States (1898-1921)...	609	5	36	.....	.....	.....	.....	.....	.....	609	65
The Teaching of American History.....	610	3	27	610	3	21	.....	.....	.....	.....	.....
The Influence of Racial Groups on the History of the United States.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	611	24
The Pioneer in American History to 1812.....	.....	.....	.....	612	3	17	.....	.....	.....	.....	.....
The Pioneer in American History since 1812..	.....	.....	.....	.....	.....	.....	613	3	16	.....	.....
Great American Historians.....	.....	.....	.....	.....	.....	.....	614	3	5	.....	.....
Seminary in American History.....	801	3	11	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in American History.....	.....	.....	.....	802	3	4	.....	.....	.....	.....	.....
Seminary in American History.....	.....	.....	.....	.....	.....	.....	803	3	8	.....	.....
Seminary in American History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	804	5
Advanced Research.....	.....	.....	.....	806	3 to 5	2	.....	.....	.....	.....	.....
Advanced Research.....	.....	.....	.....	.....	.....	.....	807	3 to 5	3	.....	.....
Advanced Research.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	808	1
Thesis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3

## ANATOMY

Comparative Anatomy.....	.....	.....	.....	401	5	5	402	5	63	.....	.....
Comparative Embryology.....	.....	.....	.....	403	5	6	404	5	20	.....	.....
Com. Anatomy and Embryology (Pre-medical).....	406	5	35	.....	.....	.....	406	5	130	.....	.....
Comparative Anatomy (Pre-dental).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	407	97
Visceral Anatomy.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	11
Microscopic Technique.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	411	12
Comparative Anatomy (Cat).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	413	27
Human Anatomy (Dental & Applied Optics)...	.....	.....	.....	431	5	76	432	5	74	433	68
Histology (Dental and Applied Optics).....	.....	.....	.....	434	4	35	435	5	50	.....	.....
History & Embryology (Dental & App. Optics).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	436	50
Anatomy (The Eye).....	.....	.....	.....	.....	.....	.....	437	5	6	.....	.....
Cytology.....	.....	.....	.....	.....	.....	.....	611	5	3	612	7

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Human Anatomy (Medical gross).....	.....	.....	.....	621	5	93	622	5	84	623	5	72
Histology (Medical).....	.....	.....	.....	624	5	95	.....	.....	.....	.....	.....	.....
Embryology (Medical).....	.....	.....	.....	.....	.....	.....	625	5	80	.....	.....	.....
Neurology (Medical).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	626	5	73
Topographical Anatomy.....	.....	.....	.....	627	5	63	.....	.....	.....	.....	.....	.....
Special Anatomy (Advanced).....	.....	.....	.....	.....	.....	.....	628	5	14	.....	.....	.....
Advanced Anatomy.....	.....	.....	.....	608	5	3	608	5	2	.....	.....	.....
Anatomy for Nurses.....	.....	.....	.....	.....	3	20	.....	.....	.....	.....	.....	.....
Anatomy Human (Phys. Education).....	.....	.....	.....	.....	.....	.....	412	5	13	.....	.....	.....
ANIMAL HUSBANDRY												
Elementary Livestock Judging.....	.....	.....	.....	401	5	35	401	5	60	401	5	29
Feeding Livestock.....	.....	.....	.....	402	5	33	402	5	46	402	5	25
Horse Production.....	.....	.....	.....	.....	.....	.....	601	5	17	.....	.....	.....
Beef Cattle Production.....	.....	.....	.....	.....	.....	.....	602	5	11	.....	.....	.....
Swine Production.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	5	37
Dairy Cattle Production.....	.....	.....	.....	604	5	15	.....	.....	.....	.....	.....	.....
Sheep Production.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	5	9
Advanced Livestock Judging.....	.....	.....	.....	606	5	9	.....	.....	.....	.....	.....	.....
Meats and Meat Products.....	.....	.....	.....	.....	.....	.....	607	5	6	.....	.....	.....
Livestock Markets and Marketing.....	.....	.....	.....	608	5	4	.....	.....	.....	.....	.....	.....
Breeding Livestock.....	.....	.....	.....	.....	.....	.....	609	5	36	.....	.....	.....
Special Problems.....	701	3-5	.....	701	3-5	3	701	3-5	3	701	3-5	4
Research Work.....	.....	.....	.....	801	.....	1	801	.....	1	801	.....	1
APPLIED OPTICS												
Theoretic Optics.....	.....	.....	.....	401	5	6	402	5	6	403	5	6
Vision Optics.....	.....	.....	.....	411	4	8	412	4	8	413	4	8
Theoretic Applied Optics.....	.....	.....	.....	421	3	11	422	3	11	423	3	11
Mechanical Optics.....	.....	.....	.....	431	2	12	432	2	12	433	2	11
Clinical Laboratory Practice.....	.....	.....	.....	441	5	12	442	5	11	443	5	11
ARCHITECTURE												
Shades and Shadows.....	.....	.....	.....	401	3	53	.....	.....	.....	.....	.....	.....
Perspective.....	.....	.....	.....	.....	.....	.....	402	3	48	.....	.....	.....
Composition.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	403	3	50
Elements of Architecture.....	.....	.....	.....	421	5	56	.....	.....	.....	.....	.....	.....



Order Problems	422	5	5	422	5	15	422	5	16
Order Problems	423	5	6	423	5	4	423	5	16
Design	624	5	9	624	5	6	624	5	7
Design	625	5	6	625	5	12	625	5	10
Design	626	8	3	626	8	5	626	8	10
Advanced Design	727	8	6	727	8	1	727	8	3
Advanced Design	728	8	5	728	8	7	728	8	3
Ornament				729	5	15			
Thesis	718	5	1	718	5	4	718	5	18
History of Architecture	644	3	20						
History of Architecture				645	3	18			
History of Architecture							646	3	14
History of Architecture									
History (Ancient)	431	3	26						
History (Classic)				432	3	20			
History (Mediaeval)							433	3	19
History (Renaissance)	634	3	10						
History (Modern)				635	3	8			
Wood Construction				630	5	12			
Timber Framing				640	5	11			
Masonry							641	5	11
Masonry and Concrete	736	5	14						
Construction Design	742	5	9						
Construction Design				743	5	12			
Photography	611	3	23				611	3	50
Advanced Photography				750	3	6			
Professional Practice							715	5	24
Building Sanitation				737	2	12			
Fire Protection				748	2	15			
Building Sanitation				747	3	13			
ASTRONOMY									
General Astronomy	401	5	125	401	5	49	401	5	89
General Astronomy	402	5	40	402	5	118	402	5	53
Practical Astronomy	601	3	30						
Geodesy and Least Squares				602	3	47			
Introduction to Celestial Mechanics							605	5	3
BACTERIOLOGY									
Pharmacy				402	3	33	402	3	46
Veterinary Bacteriology				432	5	6			
Dental Bacteriology							450	5	51
General Bacteriology	607	5	56				607	5	54
Pathogenic Lectures	608	3	25						
Pathogenic Laboratory	609	3	20						
Dairy				610	3	7			
Water and Sewage				614	3	5			
Serum Therapy (Lectures)	617	3	14				617	3	43
Serum Therapy (Laboratory)	618	3	4				618	3	4
Pathogenic Protozoa							619	3	10
Advanced Technique	625	5	8						
Special Problems							627	5	3
Medical	641	5	46						

BUREAU OF EDUCATIONAL RESEARCH  
Credited in School Administration



Administration of the Curriculum.....	604	3	22	.....	.....	.....	.....	.....	.....	604	3	11
Building and Equipment.....	606	3	22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Educational Statistics.....	613	6	61	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minor Problems.....	617	4	5	618	3	4	619	3	4	620	3	9
Major Research Problems.....	804	3-5	7	804	3-5	7	804	3-5	7	804	3-5	7
Credited in Principles and Practice												
Minor Problems.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	652	3	7
<b>BUSINESS ORGANIZATION</b>												
Elements of Business Organization.....	.....	.....	.....	400	5	250	400	5	162	400	5	158
Business Communication.....	.....	.....	.....	604	3	43	604	3	27	604	3	64
Secretarial Problems.....	.....	.....	.....	.....	.....	.....	606	3	7	607	3	6
Business Statistics.....	.....	.....	.....	.....	.....	.....	614	3	17	614	3	15
Public Aspects of Industry.....	.....	.....	.....	.....	.....	.....	620	1	160	.....	.....	.....
Business Law: Contracts.....	.....	.....	.....	621	3	154	621	3	146	621	3	97
Business Law: Agency and Sales.....	.....	.....	.....	623	3	40	623	3	127	623	3	96
Business Law: Negotiable Instruments.....	.....	.....	.....	625	3	34	625	3	43	625	3	83
Business Law: Partnerships and Corporations	.....	.....	.....	.....	.....	.....	.....	.....	.....	627	3	51
Business Law: Legal Aspects of Credits and	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Collections.....	.....	.....	.....	629	3	34	629	3	27	.....	.....	.....
Business Organization and Control.....	.....	.....	.....	640	3	38	640	3	68	640	3	35
Trade Associations.....	.....	.....	.....	.....	.....	.....	645	3	16	.....	.....	.....
Corporation Finance.....	650	5	8	650	5	82	650	5	106	650	5	70
Industrial Finance.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	652	3	65
Railroad and Public Utility Finance.....	.....	.....	.....	.....	.....	.....	656	3	35	.....	.....	.....
Investments.....	.....	.....	.....	658	3	18	.....	.....	.....	658	3	54
Stock Market.....	660	3	5	660	3	33	.....	.....	.....	.....	.....	.....
Money Market.....	.....	.....	.....	.....	.....	.....	662	3	14	.....	.....	.....
Foreign Exchange.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	665	3	22
Practice Work in Banking.....	666	1-3	3	666	1-3	7	667	1-3	5	.....	.....	.....
Bank Organization and Management.....	.....	.....	.....	.....	.....	.....	670	4	13	.....	.....	.....
Industrial Organization and Management.....	680	5	17	680	5	12	680	5	18	681	3	38
Industrial Management Field Work.....	684	4-6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Material Organization and Management.....	685	3	3	685	3	13	685	3	11	.....	.....	.....
Employment Organization and Management.....	.....	.....	.....	686	3	17	.....	.....	.....	686	3	13
Production Organization and Management.....	.....	.....	.....	.....	.....	.....	687	3	18	.....	.....	.....
Office Organization and Management.....	.....	.....	.....	691	3	60	.....	.....	.....	.....	.....	.....
Time and Motion Study.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	692	3	8
Problems in Employment Organization and	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Management.....	.....	.....	.....	.....	.....	.....	695	3	1	.....	.....	.....
Problems in Production Organization and Man-	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
agement.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	696	3	2
Industrial Problems.....	.....	.....	.....	.....	.....	.....	697	3	1	.....	.....	.....
Marketing.....	.....	.....	.....	700	5	58	700	5	80	700	5	110
Marketing Problems.....	.....	.....	.....	702	3	46	702	3	23	702	3	17
Wholesaling and Retailing.....	.....	.....	.....	705	4	16	705	4	31	705	4	40
Credits and Collections.....	.....	.....	.....	709	3	15	709	3	27	709	3	41
Salesmanship.....	.....	.....	.....	712	3	79	712	3	27	712	3	20
Principles of Advertising.....	.....	.....	.....	716	3	14	716	3	71	716	3	25
Advertising Practice.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	717	3	8

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Ceramic Designing.....	706	5	11	706	5	11	707	5	11
Ceramic Designing.....	710	2	3	710	2	13	711	4	13
Ceramic Designing.....	801	10	1	802	5	1	803	3	1
Ceramic Thesis.....	810	2	1	811	2	2	812	2	1
Ceramic Thesis.....	816	3	1	817	2	1	817	3	1
Ceramic Research in Enamels.....	10	1	1	10	1	1	10	1	1
Research Work (Graduate School).....	11	1	1	10	2	2	11	2	2
Testing of Clays for Industrial Values.....									
Porcelain for Electrical and Other Purposes..									
Advanced Experimental Work.....									
Advanced Experimental Work.....									
Master's Thesis.....									
Doctor's Thesis.....									

#### CHEMICAL ENGINEERING

Chemical Engineering Practice Work.....	501	5	41	503	2	15	504	5-6	19
Chemical Engineering Thesis.....				503			503	2	1
Chemical Engineering Thesis.....				700	2	11			
Elements of Chemical Engineering.....	701	3	4	701	3	44	702	3	38
Industrial Chemistry.....							703		42
Inspection Trip to the East.....							705		0
Written Repts. (Substitute for Insp. Trip East)							707		34
Industrial Chemistry.....	706	5	32	707	3	34	710	3	8
Applied Electro Chemistry.....				900	5	1	902	10	1
Advanced Industrial Chemistry.....	900	5	1	901	5	1	907	2	7
Seminary in Industrial Chemistry.....	905	2	5	906	2	5	950		10
Chemical Research.....	950		7	950		9			

#### CHEMISTRY

Elementary Chemistry.....	401	5	689	401	5	108	402	5	96
Elementary Chemistry.....	402	5	546	402	5	546	403	5	269
Qualitative Analysis.....	403	5	10	411	5	105	412	5	102
General Chemistry.....	411	5	841	412	5	712	413	5	448
General Chemistry.....	413	5	16	421	4	168	422	4	25
Qualitative Analysis.....	421	4	6	422	4	128	423	4	61
Quantitative Analysis.....	423	4		424			424	1	29
Quantitative Analysis.....	441	3	43	441	3	269			
Problems in Quantitative Analysis.....	442	3	44	442	3	249			
Organic Chemistry.....	444	2	39	444	2	276			
Organic Chemistry.....	445	2	40	445	2	255			
Organic Chemistry Laboratory.....	447	3	12	447	3	45			
Organic Chemistry Laboratory.....	448	3	15	448	3	47			
Organic Chemistry Laboratory.....	449	3	8	449	3	44			
Organic Chemistry Laboratory.....	450	3	8	450	3	28			
Physical Chemistry (Biological).....							483	2	21
Reading of Chemical Periodicals in German...	581	3	5				581	3	14
Advanced Quantitative Analysis.....	621	4-5	5						
General Quantitative Analysis.....				622	3	15			

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Gas Analysis .....	623	4-5	.....	623	4-5	6	.....	.....	.....	624	4-5	.....
Advanced Qualitative Analysis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	625	5	8
Water Analysis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	641	3	29
Qualitative Organic Analysis.....	641	3	.....	.....	.....	.....	.....	.....	.....	642	3	4
Quantitative Organic Chemistry .....	642	3	.....	.....	.....	.....	662	3	15	.....	.....	.....
Advanced General Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	672	3	36
Inorganic Preparations.....	672	3	33	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Rare Elements.....	663	3	20	663	3	.....	.....	.....	.....	.....	.....	.....
Physical Chemistry.....	681	3	21	681	3	69	682	3	54	683	3	53
Physical Chemistry Laboratory.....	691	2	11	691	2	31	692	2	25	693	3	12
Colloid Chemistry.....	.....	.....	.....	.....	.....	.....	695	2	12	.....	.....	.....
Theoretical Electrochemistry .....	.....	.....	.....	696	3	12	.....	.....	.....	.....	.....	.....
Teaching of Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	781	3	.....
Chemical Bibliography.....	.....	.....	.....	.....	.....	.....	782	1	36	.....	.....	.....
Chemical Biography.....	783	1	14	.....	.....	.....	.....	.....	.....	783	1	36
Seminary in Precise Chemical Measurements..	.....	.....	.....	821	3	5	.....	.....	.....	.....	.....	.....
Seminary in Analytical Chemistry.....	.....	.....	.....	.....	.....	.....	822	3	0	.....	.....	.....
Advanced Organic Chemistry.....	.....	.....	.....	841	3	29	842	3	24	.....	.....	.....
Advanced Organic Preparations (Laboratory) ..	844	5	6	844	3-5	16	845	3-5	13	.....	.....	.....
Seminary in Organic Chemistry.....	.....	.....	.....	850	3	20	851	3	15	.....	.....	.....
Physical Chemistry Laboratory.....	861	3	8	861	3	7	862	3	4	863	3	7
Atomic Structure .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	865	2	22
Seminary Inorganic Chemistry .....	.....	.....	.....	.....	.....	.....	866	2	6	.....	.....	.....
Seminary in Physical Chemistry.....	891	3	23	891	3	8	892	2	13	.....	.....	.....
Historical Chemistry.....	.....	.....	.....	.....	.....	.....	930	3	15	.....	.....	.....
Chemical Research.....	950	5-15	7	950	5-15	25	950	5-15	40	950	5-15	43
Chemical Engineering Thesis.....	.....	.....	.....	.....	.....	.....	503	3	2	504	5	2
CIVIL ENGINEERING												
Summer Surveying Camp.....	407	6	14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summer Surveying Camp.....	607	6	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Land Surveying.....	.....	.....	.....	401	5	76	401	5	34	.....	.....	.....
Plane Surveying.....	.....	.....	.....	.....	.....	.....	402	5	48	402	5	13
Railroad Surveying.....	.....	.....	.....	403	5	11	.....	.....	.....	403	5	50
Topographic Drawing.....	.....	.....	.....	.....	.....	.....	404	4	49	.....	.....	.....
Applied Descriptive Geometry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	405	4	40
Elementary Surveying.....	.....	.....	.....	411	3	21	.....	.....	.....	411	3	56



Topographic Surveying.....	.....	.....	.....	601	5	33	.....	.....	.....	.....	.....	.....
Sanitary Engineering.....	.....	.....	.....	602	5	41	.....	.....	.....	.....	.....	.....
Timber Construction.....	.....	.....	.....	.....	.....	.....	603	5	48	.....	.....	.....
Stresses in Structures.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	5	35
Roads and Pavements.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	5	38
Cement and Concrete.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	3	47
Concrete Design.....	.....	.....	.....	701	5	46	.....	.....	.....	.....	.....	.....
Bridge Design.....	.....	.....	.....	702	5	49	.....	.....	.....	.....	.....	.....
Water Supply Engineering.....	.....	.....	.....	.....	.....	.....	703	5	50	.....	.....	.....
Masonry Construction.....	.....	.....	.....	.....	.....	.....	704	5	48	.....	.....	.....
Masonry Structures.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	705	5	39
Thesis .....	.....	.....	.....	706	1	45	.....	.....	.....	.....	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	707	2	45	.....	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	708	5	35
Factory Building Construction.....	.....	.....	.....	.....	.....	.....	711	3	19	711	3	15
Trusses .....	.....	.....	.....	712	5	20	712	5	13	712	5	14
Concrete Design.....	.....	.....	.....	713	5	11	.....	.....	.....	.....	.....	.....
Steel Frame Buildings.....	.....	.....	.....	.....	.....	.....	714	5	11	.....	.....	.....
Railway Engineering.....	.....	.....	.....	730	3	8	.....	.....	.....	.....	.....	.....
Railway Engineering.....	.....	.....	.....	.....	.....	.....	731	3	5	.....	.....	.....
Contracts and Specifications .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	732	3	12
Tall Buildings.....	.....	.....	.....	733	3	26	.....	.....	.....	.....	.....	.....
Advanced Bridges.....	.....	.....	.....	.....	.....	.....	734	3	28	.....	.....	.....
Advanced Bridges.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	735	3	19
Highway Engineering.....	.....	.....	.....	.....	.....	.....	738	3	7	.....	.....	.....
DAIRYING												
Principles of Dairying.....	401	5	6	401	5	42	401	5	68	401	5	23
Farm Dairying.....	.....	.....	.....	.....	.....	.....	402	5	39	.....	.....	.....
Testing of Milk Products.....	.....	.....	.....	403	5	6	.....	.....	.....	403	5	6
City Milk Supply.....	.....	.....	.....	404	5	6	.....	.....	.....	.....	.....	.....
Buttermaking.....	.....	.....	.....	405	5	1	405	5	5	405	5	1
Dairy Practice.....	406	5	1	406	5	.....	406	5	.....	406	5	.....
Soft Cheese Making.....	.....	.....	.....	.....	.....	.....	407	3	8	.....	.....	.....
Hard Cheese Making.....	.....	.....	.....	.....	.....	.....	408	5	5	.....	.....	.....
Milk Condensing.....	.....	.....	.....	409	3	3	.....	.....	.....	.....	.....	.....
Ice Cream Making.....	.....	.....	.....	410	5	3	.....	.....	.....	.....	.....	.....
Dairy Mechanics.....	.....	.....	.....	411	3	5	.....	.....	.....	.....	.....	.....
Advanced Dairying.....	.....	.....	.....	413	3-5	5	413	3-5	1	413	3-5	4
Dairy Inspection Trip.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	602	3	10
Dairy Herd Management.....	.....	.....	.....	603	3-5	3	603	3-5	3	603	3-5	1
Special Problems in Dairy Manufacturing Practice .....	.....	.....	.....	604	3-5	1	604	3-5	1	604	3-5	4
Advanced Dairying.....	.....	.....	.....	801	5	1	801	7	3	801	5	1
Milk Inspection .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	412	3	14
DENTISTRY												
Anatomy (Human).....	.....	.....	.....	431	4	58	432	4	55	433	5	53
Chemistry (Organic).....	.....	.....	.....	441	3	50	442	3	48	.....	.....	.....
Chemistry (Laboratory) .....	.....	.....	.....	444	2	50	445	2	50	.....	.....	.....
Drawing .....	.....	.....	.....	414	2	48	.....	.....	.....	.....	.....	.....

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Prosthesis (Technic) .....	.....	.....	.....	401	4	54	402	4	54	403	4	55
Operative Dentistry (Anatomy) .....	.....	.....	.....	.....	.....	.....	402	2	54	403	3	54
Physiological Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	401	3	91
Military Science.....	.....	.....	.....	451	1	53	452	1	53	453	1	53
Anatomy (Histology) .....	.....	.....	.....	434	3	40	435	3	36	436	4	39
Operative Dentistry (Technic) .....	.....	.....	.....	405	3	41	406	3	40	.....	.....	.....
Bacteriology .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	450	5	41
Physiology .....	.....	.....	.....	605	6	42	606	2	37	.....	.....	.....
Prosthesis (Technic) .....	.....	.....	.....	405	3	38	406	3	38	407	3	39
Prosthesis (Crown and Bridge) .....	.....	.....	.....	421	2	37	422	2	38	423	2	38
Dental Metallurgy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	2	40
Military Science.....	.....	.....	.....	454	1	35	455	1	35	456	1	37
Operative Dentistry (Medicine) .....	.....	.....	.....	421	1	18	422	1	21	423	2	18
Operative Dentistry (Oral Hygiene) .....	.....	.....	.....	417	3	18	418	3	19	419	1	19
Operative Dentistry (Exodontia and X-Ray) ..	.....	.....	.....	409	5	18	410	5	19	411	5	21
Pathology .....	.....	.....	.....	450	3	17	451	3	17	452	2	17
Prosthesis (Principles and Practice) .....	.....	.....	.....	409	3	20	410	3	21	411	3	22
Prosthesis (Crown and Bridge) .....	.....	.....	.....	425	2	18	426	2	20	427	2	20
Operative Dentistry (Orthodontia) .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	431	2	16
Military Science.....	.....	.....	.....	557	1	8	558	1	11	559	1	12
Operative Dentistry (Anesthesia) .....	.....	.....	.....	437	2	19	438	2	19	439	2	20
Operative Dentistry (Ethics and Economics) ..	.....	.....	.....	441	1	19	442	1	19	443	1	20
Operative Dentistry (Medicine) .....	.....	.....	.....	425	2	19	426	2	19	427	2	20
Operative Dentistry (Orthodontia) .....	.....	.....	.....	433	2	19	434	2	19	435	2	20
Operative Dentistry (Principles and Practice) ..	.....	.....	.....	413	4	19	414	4	21	415	4	21
Prosthesis (Practice) .....	.....	.....	.....	413	2	19	414	2	21	415	2	21
Prosthesis (Crown and Bridge) .....	.....	.....	.....	429	2	19	430	2	19	431	2	19
Operative Dentistry (Oral Surgery) .....	.....	.....	.....	445	2	19	446	2	19	447	2	20
Military Science.....	.....	.....	.....	560	1	12	561	1	12	562	1	12
ECONOMICS												
Introduction to Economics.....	.....	.....	.....	400	5	27	400	5	23	400	5	31
Principles of Economics (first half).....	401	5	67	401	5	338	401	5	181	401	5	205
Principles of Economics (second half).....	402	5	34	402	5	112	402	5	276	402	5	186
Principles of Economics for Engineers (1)....	.....	.....	.....	403	3	48	403	3	48	.....	.....	.....
Principles of Economics for Engineers (2)....	.....	.....	.....	.....	.....	.....	404	3	37	404	3	28





COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Alternating Current Equipment.....	.....	.....	.....	701	.....	.....	701	.....	.....	.....	.....	.....
Alternating Current Laboratory.....	.....	.....	.....	702	3	60	702	3	56	.....	.....	.....
Electric Railways.....	.....	.....	.....	705	.....	.....	705	.....	.....	.....	.....	.....
Wire Telegraphy and Telephony.....	.....	.....	.....	706	4	55	706	4	54	.....	.....	.....
Electric Illumination.....	.....	.....	.....	710	4	15	.....	.....	.....	.....	.....	.....
Electrical Illumination.....	.....	.....	.....	715	4	26	.....	.....	.....	.....	.....	.....
Radio Telegraphy and Telephony.....	.....	.....	.....	720	4	.....	.....	.....	.....	.....	.....	.....
Electrical Design.....	.....	.....	.....	722	3	16	.....	.....	.....	.....	.....	.....
Advanced Electrical Design.....	.....	.....	.....	725	4	28	.....	.....	.....	.....	.....	.....
Thesis.....	.....	.....	.....	.....	.....	.....	730	4	55	.....	.....	.....
Thesis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	731	3	7
Electrical Transmission and Distribution.....	.....	.....	.....	.....	.....	.....	735	3	12	735	3	.....
Advanced Electrical Engineering Laboratory.....	.....	.....	.....	.....	.....	.....	736	5	.....	736	5	12
Inspection Trip to the East.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	740	3	55
Reading Course.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	745	4	55
Inspection Trip to the West.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	750	.....	45
Reading Course.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	751	.....	10
Special Advanced Reading.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	755	.....	55
Special Advanced Laboratory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	756	.....	15
The Application of Hyperbolic Functions to Electrical Engineering Problems.....	.....	.....	.....	765	.....	.....	766	.....	.....	762	.....	18
Electrical Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	767	.....	.....
Electrical Engineering.....	.....	.....	.....	775	4	35	775	4	22	.....	.....	.....
Electrical Engineering.....	.....	.....	.....	776	4	15	776	4	25	.....	.....	.....
Advanced Theoretical Study of Electrical En- gineering Practice Equipment.....	801	.....	.....	.....	.....	.....	.....	.....	.....	770	.....	.....
Advanced Laboratory Study of Electrical En- gineering Equipment.....	2-3 805	.....	.....	801	.....	.....	802	.....	.....	803	3	4
Descriptive Geometry (C. E.).....	6-7 811	.....	.....	805	.....	.....	806	.....	.....	807	.....	.....
Research Work.....	12-13	.....	.....	811	.....	.....	812	.....	.....	813	.....	.....
ENGINEERING DRAWING												
Elementary Mechanical Drawing.....	401	4	7	401	4	428	401	4	30	.....	.....	.....
Mechanical Drawing.....	402	4	5	.....	.....	.....	402	4	403	402	4	29
Descriptive Geometry.....	403	4	16	.....	.....	.....	.....	.....	.....	403	4	371
Descriptive Geometry (C. E.).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	404	4	37



Mechanical Drawing (Arch.)	.....	.....	.....	411	4	27	.....	.....	.....	.....	.....	.....
Engineering Drawing (Arch.)	.....	.....	.....	.....	.....	.....	412	4	22	.....	.....	.....
Descriptive Geometry (Arch.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	413	4	23
Drawing and Sketching	.....	.....	.....	414	2	53	.....	.....	.....	.....	.....	.....
Elements of Drawing and Lettering	.....	.....	.....	.....	.....	.....	.....	.....	.....	416	2	17
Mechanical Drawing	.....	.....	.....	.....	.....	.....	418	3	12	.....	.....	.....
Graphical Processes	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	4	10
Mechanical Drawing (M. E.)	.....	.....	.....	421	3	34	.....	.....	.....	.....	.....	.....
Machine Drawing (M. E.)	.....	.....	.....	.....	.....	.....	422	3	40	.....	.....	.....
Advanced Descriptive Geometry (C. E.)	.....	.....	.....	424	4	66	.....	.....	.....	.....	.....	.....
Mechanical Drawing (E. E. and E. P.)	.....	.....	.....	425	2	87	.....	.....	.....	.....	.....	.....
Technical Drawing (Ch. E., Cer., Met.)	.....	.....	.....	426	3	27	.....	.....	.....	426	3	18
Applied Descriptive Geometry	.....	.....	.....	.....	.....	.....	.....	.....	.....	429	3	4
Drawing for Manual Arts Teachers	.....	.....	.....	435	5	14	.....	.....	.....	.....	.....	.....
Drawing for Manual Arts Teachers	.....	.....	.....	.....	.....	.....	436	5	10	.....	.....	.....
Projection Drawing	.....	.....	.....	.....	.....	.....	437	2	44	437	2	51
House Planning	.....	.....	.....	438	3	25	.....	.....	.....	438	3	36
Drawing in Business	.....	.....	.....	.....	.....	.....	439	5	45	.....	.....	.....
Teaching of Mechanical Drawing	.....	.....	.....	531	3	5	.....	.....	.....	.....	.....	.....
Teaching of Mechanical Drawing	.....	.....	.....	.....	.....	.....	532	3	5	.....	.....	.....
Teaching of Mechanical Drawing	.....	.....	.....	.....	.....	.....	.....	.....	.....	533	3	1
Chemical Machine Drawing	.....	.....	.....	701	2	29	.....	.....	.....	.....	.....	.....
Chemical Plant Layout	.....	.....	.....	.....	.....	.....	702	2	29	.....	.....	.....
Chemical Plant Design	.....	.....	.....	.....	.....	.....	.....	.....	.....	703	2	28

#### ENGLISH

Theme Writing (See 405)	306	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shelley-Keats (See 428)	328	3	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Introduction to Amer. Literature (See 433)	334	2	34	.....	.....	.....	.....	.....	.....	.....	.....	.....
Browning (See 433)	343	2	20	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nineteenth Century Prose (See 446)	346	2	27	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chaucer (See 653)	353	2	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Milton (See 658)	360	2	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Shakespeare: Later Comedies and Romances (See 670)	369	2	19	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elementary Composition	.....	.....	.....	000	0	136	000	0	62	.....	.....	.....
Composition and Reading	401	5	84	401	5	772	401	5	512	401	5	543
Theme Writing	405	5	26	405	5	59	405	5	57	405	5	73
Advanced Composition	.....	.....	.....	.....	.....	.....	407	5	37	.....	.....	.....
Elementary Composition	.....	.....	.....	410	3	396	410	3	53	.....	.....	.....
Elementary Composition	.....	.....	.....	.....	.....	.....	411	3	341	411	3	53
Elementary Composition	.....	.....	.....	.....	.....	.....	.....	.....	.....	412	3	316
Advanced English for Engineers	.....	.....	.....	419	3	43	419	3	59	419	3	52
History of the English Language	427	3	44	427	3	106	.....	.....	.....	.....	.....	.....
English Words	428	3	22	.....	.....	.....	.....	.....	.....	428	3	99
The English Bible	429	5	29	429	5	49	429	5	39	429	5	54
Introduction to American Literature	433	5	150	433	5	565	433	5	658	433	5	462
Nineteenth Century Poetry	441	5	21	441	5	140	441	5	106	441	5	164
Nineteenth Century Poetry	442	5	88	442	5	93	442	5	99	442	5	139
Nineteenth Century Prose	446	5	72	446	5	145	446	5	274	446	5	299
Eighteenth Century Poetry and Prose	636	5	31	636	5	66	.....	.....	.....	.....	.....	.....
The Essay	639	5	21	.....	.....	.....	.....	.....	.....	639	5	41

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Literature and Composition.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	643	5	21
Middle English.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	646	3	7
Old English.....	.....	.....	.....	651	3	19	.....	.....	.....	.....	.....	.....
Old English.....	.....	.....	.....	.....	.....	.....	652	3	6	.....	.....	.....
Chaucer and his Principal Contemporaries and Successors.....	653	5	27	.....	.....	.....	.....	.....	.....	653	5	57
English Medieval Literature to Chaucer.....	.....	.....	.....	654	5	28	.....	.....	.....	.....	.....	.....
The Novel: Richardson to Scott.....	.....	.....	.....	.....	.....	.....	655	5	61	.....	.....	.....
The Novel: Dickens to Meredith.....	.....	.....	.....	.....	.....	.....	657	5	18	656	5	121
Versification.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
The Short Story.....	658	5	31	658	5	32	.....	.....	.....	.....	.....	.....
Milton and Dryden.....	.....	.....	.....	.....	.....	.....	659	5	67	.....	.....	.....
Shakespeare: History and Tragedies.....	.....	.....	.....	667	5	98	.....	.....	.....	.....	.....	.....
Shakespeare: Comedies and Romances.....	.....	.....	.....	.....	.....	.....	668	5	117	.....	.....	.....
Recent and Contemporary Drama.....	670	5	31	670	5	41	.....	.....	.....	.....	.....	.....
Shakespeare's Contemporaries and Predecessors in English Drama.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	672	5	35
The Teaching of English.....	681	3	60	681	3	102	.....	.....	.....	.....	.....	.....
History of the Short Narrative.....	.....	.....	.....	801	2	25	.....	.....	.....	.....	.....	.....
The Lyric.....	802	2	8	.....	.....	.....	802	2	19	.....	.....	.....
History of Critical Theory.....	.....	.....	.....	.....	.....	.....	805	2	13	.....	.....	.....
Problems in the Drama.....	.....	.....	.....	.....	.....	.....	807	2	18	806	2	20
The Later Novel.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	808	2	23
The Later Poetry.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*English and Scottish Popular Ballads (809).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	810	2	11
English Usage.....	810	3	10	.....	.....	.....	.....	.....	.....	811	3	2
Old and Middle English Philology.....	.....	.....	.....	813	5	9	.....	.....	.....	.....	.....	.....
The Celtic Renaissance.....	.....	.....	.....	815	2	4	815	2	6	815	2	2
Studies in Seventeenth Century Literature.....	.....	.....	.....	818	2	2	.....	.....	.....	.....	.....	.....
Studies in Eighteenth Century Literature.....	818	2	10	818	2	2	.....	.....	.....	820	.....	20
Dissertations.....	819	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PUBLIC SPEAKING												
Principles and Practice of Public Speaking..	401	5	40	401	5	80	.....	.....	.....	401	5	140
Debating.....	402	5	3	402	5	5	402	5	62	402	5	12
Advanced Argumentation and Debate.....	.....	.....	.....	407	5	5	.....	.....	.....	407	5	6



Advanced Debate Practice.....	.....	.....	.....	410	5	6	410	5	3	.....	.....	.....
Extempore Speaking.....	.....	.....	.....	.....	.....	.....	421	5	7	414	5	7
Masters of Public Address.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	625	5	8
Forms of Public Address.....	.....	.....	.....	625	5	7	.....	.....	.....	.....	.....	.....
Special Problems in the Theory of Public Speaking.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	651	5	2
EUROPEAN HISTORY												
Europe in the Middle Age.....	401	5	62	401	5	331	401	5	177	401	5	197
Modern Europe from 1500 A. D.....	402	5	39	402	5	100	402	5	221	402	5	167
England in the Modern Period since 1603 A. D.....	404	5	39	.....	.....	.....	404	5	74	.....	.....	.....
Greek History.....	405	5	22	.....	.....	.....	405	5	61	.....	.....	.....
The European Problems and Reconstruction from 1918 to the Present.....	409	5	13	.....	.....	.....	.....	.....	.....	409	5	60
Ancient, Pre-historic and Oriental History....	411	3	24	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age of the Renaissance.....	608	3	27	608	3	16	.....	.....	.....	.....	.....	.....
The History of Medieval Towns.....	620	3	17	.....	.....	.....	.....	.....	.....	.....	.....	.....
The French Revolution and Napoleon.....	631	5	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in European History.....	801	2-5	2	802	2-5	5	803	2-5	5	804	2-5	7
England through the Medieval Period to 1603 A. D.....	.....	.....	.....	403	5	60	.....	.....	.....	.....	.....	.....
Roman History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	406	5	89
Europe from 1815 to 1878 A. D.....	.....	.....	.....	407	5	31	.....	.....	.....	.....	.....	.....
Europe and the World War from 1878 to 1918.....	.....	.....	.....	.....	.....	.....	408	5	74	.....	.....	.....
History of Modern Russia.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	410	5	63
The History of Christian Missions.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	412	5	22
Expansion of Europe to 1588 A. D.....	.....	.....	.....	601	5	17	.....	.....	.....	.....	.....	.....
Expansion of Europe to 1815 A. D.....	.....	.....	.....	.....	.....	.....	602	3	15	.....	.....	.....
Expansion of Europe from the Beginning of the 19th Century to the Present.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	3	12
Constitutional History of England to 1485 A. D.....	.....	.....	.....	604	5	14	.....	.....	.....	.....	.....	.....
Constitutional History of England from 1485 A. D. to the Present.....	.....	.....	.....	.....	.....	.....	605	5	16	.....	.....	.....
Roman Civilization.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	607	3	13
Period of the Reformation.....	.....	.....	.....	.....	.....	.....	609	3	9	.....	.....	.....
Ancient Christianity.....	.....	.....	.....	611	3	12	.....	.....	.....	.....	.....	.....
Medieval Christianity.....	.....	.....	.....	.....	.....	.....	612	5	5	.....	.....	.....
The Near East: The European Powers vs. Turkey.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	615	3	18
The Feudal Age.....	.....	.....	.....	.....	.....	.....	622	5	3	.....	.....	.....
England in the Nineteenth Century to 1867..	.....	.....	.....	627	3	20	.....	.....	.....	.....	.....	.....
Recent History of England since 1867.....	.....	.....	.....	.....	.....	.....	628	3	20	.....	.....	.....
The Great Historians.....	.....	.....	.....	645	3	3	.....	.....	.....	.....	.....	.....
Introduction to Historical Method.....	.....	.....	.....	.....	.....	.....	646	3	6	.....	.....	.....
The Teaching of European History.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	647	3	43
FARM CROPS												
Field Crop Production.....	401	5	15	401	5	35	401	5	9	401	5	53
Cereal Crops.....	402	.....	.....	.....	.....	.....	402	5	6	.....	.....	.....
Forage Crops.....	403	.....	.....	.....	.....	.....	.....	.....	.....	403	5	7
Special Crops.....	601	3	1	601	3	4	.....	.....	.....	.....	.....	.....

## THE WORK OF INSTRUCTORS—1924-1925—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Plant Breeding.....	602	.....	.....	.....	.....	.....	602	5	2	.....	.....	.....
Crop Experimentation.....	603	.....	.....	.....	.....	.....	.....	.....	.....	603	3	5
Advanced Grain Grading and Judging.....	605	.....	.....	605	5	5	.....	.....	.....	.....	.....	.....
Minor Investigations.....	701	3-5	4	701	3-5	1	701	3-5	1	.....	.....	.....
Research in Plant Breeding and Crop Production.....	801	5-10	3	801	5-10	3	801	5-10	3	.....	.....	.....
Seminary.....	.....	.....	.....	802	1	3	802	1	3	.....	.....	.....
FINE ARTS												
Intermediate Design.....	332	3	25	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theory and Practice of Teaching Art.....	372	3	48	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theory and Practice of Teaching Art.....	373	3	22	.....	.....	.....	.....	.....	.....	.....	.....	.....
Freehand Drawing.....	.....	.....	.....	401	2	16	.....	.....	.....	.....	.....	.....
Freehand Drawing.....	.....	.....	.....	.....	.....	.....	402	2	11	.....	.....	.....
Freehand Drawing (403).....	.....	.....	.....	404	2	15	.....	.....	.....	403	2	8
Advanced Freehand Drawing (404).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Freehand Drawing.....	.....	.....	.....	.....	.....	.....	405	2	10	406	2	11
Water Color Painting.....	.....	.....	.....	408	2	6	.....	.....	.....	407	2	1
Drawing from Life.....	.....	.....	.....	.....	.....	.....	411	2	6	412	2	4
Elementary Freehand Drawing.....	421	5	9	421	5	57	421	5	52	421	5	38
Advanced Freehand Drawing.....	.....	.....	.....	423	5	16	423	5	28	423	5	12
Drawing from Life.....	.....	.....	.....	424	5	9	424	5	10	424	5	13
Advanced Life Drawing.....	.....	.....	.....	425	5	1	425	5	2	425	5	2
Elements of Art.....	426	5	5	426	5	56	426	5	63	426	5	36
Elementary Design.....	431	5	4	431	5	11	431	5	8	431	5	17
Intermediate Design.....	.....	.....	.....	.....	.....	.....	432	5	8	.....	.....	.....
Thesis Design.....	.....	.....	.....	.....	.....	.....	434	5	2	434	5	1
Costume Design.....	.....	.....	.....	436	3	40	436	3	45	436	3	48
Water Color Painting.....	441	5	3	441	5	9	.....	.....	.....	441	5	18
Oil Painting.....	.....	.....	.....	442	5	8	442	5	6	442	5	8
Advanced Oil Painting.....	.....	.....	.....	443	5	1	443	5	5	443	5	8
History of Classic Art.....	.....	.....	.....	451	5	32	.....	.....	.....	.....	.....	.....
History of Medieval Art and Ren. Art.....	.....	.....	.....	.....	.....	.....	452	5	27	453	5	32
History of Minor Arts (455).....	.....	.....	.....	.....	.....	.....	455	5	5	454	5	41
Modern Painting and Sculpture (454).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Modelling.....	.....	.....	.....	461	5	8	461	5	17	461	5	12
Advanced Modelling.....	.....	.....	.....	.....	.....	.....	462	5	2	462	5	6



Theory and Practice of Teaching Art.....	.....	.....	.....	471	5	7	.....	.....	.....	.....	.....	.....	.....
Appreciation of Art.....	475	1	64	475	1	41	475	1	61	475	1	82	.....
Proseminary .....	.....	.....	.....	657	5	6	658	5	5	659	5	5	.....
Advanced Technical Problems.....	.....	.....	.....	661	3-5	2	661	3-5	1	661	3-5	2	.....
Advanced Technical Problems.....	.....	.....	.....	662	3-5	1	662	3-5	5	.....	.....	.....	.....
Advanced Technical Problems.....	.....	.....	.....	663	3-5	1	663	3-5	2	663	3-5	9	.....
.....	.....	.....	.....	.....	.....	.....	Thesis	.....	1	Thesis	.....	2	.....
.....	.....	.....	.....	.....	.....	.....	Dissert.	.....	1	Dissert.	.....	1	.....
Totals.....	.....	.....	180	.....	.....	342	.....	.....	379	.....	.....	418	.....

## GEOGRAPHY

Principles of Geography.....	401	5	32	401	5	331	401	5	191	401	5	139	.....
Principles of Social Geography.....	.....	.....	.....	402	5	187	402	5	92	402	5	122	.....
Economic Geography .....	403	5	21	403	5	130	403	5	231	403	5	185	.....
Historical Geography and Commerce of U. S. ....	.....	.....	.....	.....	.....	.....	601	3	80	601	3	124	.....
Localization of Mfg. Industries in U. S. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	603	4	26	.....
Conservation of Natural Resources.....	.....	.....	.....	604	2	11	.....	.....	.....	.....	.....	.....	.....
Economic and Social Geography of Ohio.....	.....	.....	.....	.....	.....	.....	605	2	34	.....	.....	.....	.....
Land Utilization .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	2	34	.....
Economic and Social Geography of Europe.....	.....	.....	.....	621	3	48	.....	.....	.....	.....	.....	.....	.....
The Political Geography of South America.....	.....	.....	.....	623	3	35	.....	.....	.....	.....	.....	.....	.....
The Caribbean Region and the Panama Canal.....	.....	.....	.....	.....	.....	.....	624	3	27	.....	.....	.....	.....
Economic Geography of the Far East.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	625	3	16	.....
Geography and History of Commerce.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	631	3	105	.....
World Industries and Commerce.....	633	3	14	633	3	10	.....	.....	.....	.....	.....	.....	.....
Trade Centers and Trade Routes.....	.....	.....	.....	.....	.....	.....	634	3	73	.....	.....	.....	.....
Field Work in Geography and Commerce.....	.....	.....	.....	641	1-3	2	.....	.....	.....	641	1-3	12	.....
.....	.....	.....	.....	801	.....	.....	801	.....	.....	801	.....	.....	.....
Research in Geography and Commerce.....	.....	.....	.....	2-3	1-3	2	2-3	1-3	4	2-3	1-3	4	.....
.....	.....	.....	.....	805	.....	.....	805	.....	.....	805	.....	.....	.....
Seminary in Geography and Commerce.....	.....	.....	.....	6-7	2	3	6-7	2	4	6-7	2	4	.....
Totals Quarterly .....	.....	.....	67	.....	.....	67	.....	.....	736	.....	.....	771	.....
Total for Year.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2333	.....

## GEOLOGY

General Geology.....	401	5	26	401	5	265	401	5	124	401	5	43	.....
General Geology.....	402	5	15	.....	.....	.....	402	5	218	402	5	92	.....
Physiography of the United States.....	.....	.....	.....	403	5	11	.....	.....	.....	.....	.....	.....	.....
Structural and Dynamical Geology.....	.....	.....	.....	.....	.....	.....	406	5	9	.....	.....	.....	.....
Historical Geology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	407	5	8	.....
Introductory Paleontology.....	.....	.....	.....	408	3	7	409	3	4	410	3	4	.....
Meteorology and Climatology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	420	5	18	.....
Agricultural Geology.....	.....	.....	.....	430	5	39	430	5	20	430	5	77	.....
Engineering Geology.....	.....	.....	.....	435	5	41	435	5	42	.....	.....	.....	.....
Historical Geology for Engineers.....	.....	.....	.....	.....	.....	.....	437	3	10	.....	.....	.....	.....
Advanced Paleontology.....	.....	.....	.....	601	4	2	602	3	1	603	4	1	.....
Areal Geology.....	.....	.....	.....	611	5	1	.....	.....	.....	611	5	1	.....
Economic Geology.....	.....	.....	.....	605	3	19	606	3	13	607	3	13	.....
Geological Surveying.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	615	5	6	.....
Clays .....	.....	.....	.....	.....	.....	.....	616	5	3	.....	.....	.....	.....

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
GERMAN												
Elementary German.....	401	5	26	401	5	262	401	5	95	401	5	80
Elementary German.....	402	5	9	402	5	52	402	5	173	402	5	76
Easy Classical Reading.....	404	5	13	404	5	27	404	5	18	404	5	19
Advanced German.....	411	5	7	442	5	10	415	5	12	421	5	23
German Criticism.....	475	3	12	.....	.....	.....	475	3	12	.....	.....	.....
Proseminary: 18th and 19th Century Literature	613	3	2	631	3	2	612	3	6	641	3	5
Minor Investigations.....	695	3	1	.....	.....	.....	695	3	2	.....	.....	.....
Intermediate German.....	.....	.....	.....	403	5	31	403	5	24	403	5	103
Science Reading.....	.....	.....	.....	406	5	22	406	5	17	.....	.....	.....
Advanced Composition.....	.....	.....	.....	.....	.....	.....	685	3	1	.....	.....	.....
Seminary in German Literature.....	.....	.....	.....	.....	.....	.....	851	3	6	852	3	2
GREEK												
Beginner's Greek.....	.....	.....	.....	401	5	20	.....	.....	.....	.....	.....	.....
Xenophon.....	.....	.....	.....	.....	.....	.....	402	5	12	.....	.....	.....
Plato.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	403	5	7
Homer.....	.....	.....	.....	404	5	4	.....	.....	.....	.....	.....	.....
Minor Problems.....	.....	.....	.....	610	3-5	1	610	3-5	1	.....	.....	.....
Advanced Reading.....	.....	.....	.....	.....	.....	.....	601	5	2	601	5	2
Greek Art.....	.....	.....	.....	650	3	6	601	3	1	.....	.....	.....
Principles Historical Study of Languages.....	.....	.....	.....	.....	.....	.....	651	3	12	652	3	23
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	701	3	16
HISTORY OF EDUCATION												
History of Elementary Education.....	401	.....	.....	.....	.....	.....	401	5	14	.....	.....	.....
History of Pre-Renaissance Education.....	403	3	10	403	3	26	403	3	24	.....	.....	.....
History of Modern Education, I.....	404	3	161	404	3	195	404	3	79	404	3	72
History of Modern Education, II.....	405	3	107	405	3	56	405	3	166	404	3	123
Educational Classics, I.....	601	.....	.....	.....	.....	.....	.....	.....	.....	601	4	37
Educational Classics, II.....	602	.....	.....	602	4	9	.....	.....	.....	.....	.....	.....
Comparative Education, I.....	603	2	23	603	2	27	.....	.....	.....	604	2	22
Comparative Education, II.....	604	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
History of Education in the United States, I.....	605	.....	.....	.....	.....	.....	605	2	53	.....	.....	.....
History of Education in the United States, II.....	606	.....	.....	.....	.....	.....	.....	.....	.....	606	2	14
History of Industrial Education.....	607	.....	.....	.....	.....	.....	607	2	6	.....	.....	.....



History of the American High School.....	608	.....	.....	.....	.....	.....	.....	.....	.....	608	2	31
Present-day Problems, I.....	609	2	7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Present-day Problems, II.....	610	.....	.....	.....	.....	.....	.....	.....	.....	610	2	29
Seminary in History of Education, I.....	801	2	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in History of Education, II.....	802	.....	.....	802	2	4	.....	.....	.....	.....	.....	.....
Survey of S. M. & Gen. Lit. in Hist. of Ed...	803	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in History of Education, III.....	804	.....	.....	.....	.....	.....	.....	.....	.....	804	2	1
Summer Term Course in Ed. Cl., I ½, (601)..	350	2	16	.....	.....	.....	.....	.....	.....	.....	.....	.....
Summer Term Course in Ed. Cl, II ½, (601)	351	2	17	.....	.....	.....	.....	.....	.....	.....	.....	.....
Research.....	A	2	1	ABC	6	3	AB	5	2	A	3	1

### HOME ECONOMICS

Survey—Home Economics.....										Survey	1	74
Textiles and Clothing.....				401	5	117	401	5	21			
Textiles and Clothing.....							402	5	44	402	5	63
Dress.....	403	5	13	403	5	39	403	5	14	403	5	44
Elements of Nutrition.....	410	5	17				410	5	6			
Foods.....				411	5	50	411	5	30	411	5	20
Foods.....				412	5	24	412	5	43	412	5	27
Foods.....				413	5	15	413	5	14	413	5	14
Minimal Family Expenditures.....							415	3	8			
Elements of Homemaking.....										418	5	14
Advanced Dress.....	501	5	17	501	5	9				501	5	12
Millinery.....				502	3	13				502	3	20
Sanitation.....				511	3	30	511	3	35	511	3	16
House Furnishing.....				512	3	16	512	3	41	512	3	25
Nutrition.....	611	5	18	611	5	41	611	5	24	611	5	38
Advanced Nutrition.....										612	5	15
Household Management.....				617	5	23	617	5	32	617	5	21
Child Care.....							621	5	33	621	5	50
Institutional Management.....				631	5	9	631	5	20			
Institutional Management.....							632	5	7	632	5	21
School Lunchroom Management.....	633	3	14							633	3	11
Home Economics Teaching.....				641	5	20	641	5	19	641	5	19
Supervised Home Economics Teaching.....				642	5	10	642	5	13	642	5	16
Special Problems in Home Economics.....	625	*	6									
Special Problems in Home Economics.....				701	*	6	701	*	6	701	*	10

\* 3 to 15 credit hours.

### HORTICULTURE

Pomology.....				403	5	11				403	5	6
Experimental Pomology.....							603	3	5			
Systematic Pomology.....				604	5	9				605	5	5
Advanced Pomology.....												
Horticulture.....				602	3	4						
Literature.....							605	5	4			
Research.....							801	3	2	801	5	2
Special Students.....						3						
Investigations.....							701	3	4			
Farm Horticulture.....				405	5	87	405	5	40	405	5	42
Commercial Vegetable Gardening.....				421	5	6						
Greenhouse Construction.....							424	5	13			

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Commercial Vegetable Gardening	.....	.....	.....	.....	.....	.....	.....	.....	.....	422	5	4
Horticultural Products	.....	.....	.....	423	5	8	.....	.....	.....	.....	.....	.....
Special Truck Crops	.....	.....	.....	.....	.....	.....	428	5	12	.....	.....	.....
Vegetable Forcing	.....	.....	.....	.....	.....	.....	.....	.....	.....	426	5	4
Systematic Vegetable Gardening	.....	.....	.....	621	5	6	.....	.....	.....	.....	.....	.....
Vegetable, Special Problems	.....	.....	.....	.....	.....	.....	701	3	11	701	3	5
Horticulture Plant Breeding	.....	.....	.....	601	3	2	.....	.....	.....	.....	.....	.....
Amateur Floriculture	.....	.....	.....	.....	.....	.....	441	3	7	.....	.....	.....
Garden Flowers	.....	.....	.....	.....	.....	.....	443	5	4	445	5	12
Commercial Flower Culture	.....	.....	.....	422	5	5	.....	.....	.....	446	3	5
Flower Shop	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Garden Flowers	.....	.....	.....	444	5	8	.....	.....	.....	.....	.....	.....
Minor Investigations	.....	.....	.....	701	3	1	701	2	3	.....	.....	.....
Conservatory Plants	.....	.....	.....	.....	.....	.....	.....	.....	.....	447	3	4
Research	.....	.....	.....	.....	.....	.....	.....	.....	.....	801	5	1
Farm Woodlot	.....	.....	.....	451	5	1	.....	.....	.....	451	5	2
Lumber	.....	.....	.....	.....	.....	.....	454	5	2	.....	.....	.....
Arboriculture	.....	.....	.....	452	5	3	.....	.....	.....	.....	.....	.....
General Forestry	.....	.....	.....	.....	.....	.....	458	5	10	.....	.....	.....
Timber Physics	.....	.....	.....	.....	.....	.....	.....	.....	.....	457	4	6
Principles of Forestry	.....	.....	.....	455	5	6	.....	.....	.....	.....	.....	.....
Conservation	.....	.....	.....	.....	.....	.....	461	5	4	.....	.....	.....
Minor Investigations Forestry	.....	.....	.....	.....	.....	.....	551	3	2	551	3	3
Principles Horticulture	.....	.....	.....	401	5	16	.....	.....	.....	.....	.....	.....
Small Fruits	.....	.....	.....	.....	.....	.....	.....	.....	.....	402	5	8
Principles of Horticulture	.....	.....	.....	401	5	13	.....	.....	.....	.....	.....	.....
Minor Investigations—Charles	.....	.....	.....	.....	.....	.....	.....	.....	.....	701	5	4
Landscape Design	.....	.....	.....	464	3	12	.....	.....	.....	463	5	4
Landscape Design	.....	.....	.....	.....	.....	.....	.....	.....	.....	466	3	6
Landscape Design	.....	.....	.....	.....	.....	.....	.....	.....	.....	482	5	4
Landscape Design	.....	.....	.....	.....	.....	.....	465	3	13	.....	.....	.....
Landscape Design	.....	.....	.....	464	3	12	481	5	5	463	5	4
Plant Materials	.....	.....	.....	.....	.....	.....	469	5	12	.....	.....	.....
Plant Materials	.....	.....	.....	.....	.....	.....	471	3	8	470	5	7
Special Problems	.....	.....	.....	.....	.....	.....	.....	.....	.....	472	3	1
Plant Design	.....	.....	.....	471	3	6	.....	.....	.....	.....	.....	.....
Amateur Landscape Gardening	.....	.....	.....	.....	.....	.....	461	3	29	.....	.....	.....



Landscape Design	.....	.....	.....	.....	.....	.....	463	5	2	.....	.....	.....
Landscape Design	.....	.....	.....	.....	.....	.....	.....	.....	.....	482	5	4
INDUSTRIAL ARTS												
Shop Work.....	401	5	.....	401	5	.....	401	5	.....	401	5	.....
Foundry Work.....	405	3	13	405	3	28	405	3	8	405	3	6
Metal Bench Work.....	407	2	3	407	2	34	407	2	12	407	2	5
Metal Bench Work.....	408	2	9	408	2	.....	408	2	23	408	2	9
Pattern Making.....	411	3	67	411	3	44	411	3	24	411	3	22
Forging.....	415	3	21	415	3	24	415	3	12	415	3	11
Forging and Sheet Metal Work.....	416	3	32	416	3	26	416	3	14	416	3	23
Elementary Machine Work.....	419	3	16	419	3	80	419	3	42	419	3	27
Advanced Machine Work.....	421	3	17	421	3	15	421	3	65	421	3	28
Advanced Machine Work.....	523	2	2	523	2	6	523	2	3	523	2	8
INDUSTRIAL EDUCATION												
Elementary Woodwork.....	401	3	9	401	3	2	401	3	1	401	3	1
Wood-turning and Pattern-making.....	501	3	12	501	3	12	.....	.....	.....	501	3	.....
Advanced Wood-turning and Pattern-making..	502	3	6	.....	.....	.....	502	3	12	.....	.....	.....
Cabinet Making.....	503	3	10	503	3	3	.....	.....	.....	503	3	6
Advanced Cabinet Making.....	504	3	15	504	3	.....	504	3	9	.....	.....	.....
Craftwork for Women.....	.....	.....	.....	.....	.....	.....	507	3	4	507	3	5
Craftwork for Women.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	508	3	2
Methods Related to Agricultural Shopwork....	509	2	3	.....	.....	.....	509	2	19	.....	.....	.....
Shopwork Related to the Farm.....	510	3	21	.....	.....	.....	510	3	13	.....	.....	.....
House Construction and Furnishing.....	.....	.....	.....	.....	.....	.....	512	2	34	512	2	35
Constructive Design.....	521	3	11	521	3	6	.....	.....	.....	521	3	1
Advanced Constructive Design.....	522	3	7	522	3	1	522	3	8	.....	.....	.....
Teaching of Industrial Education.....	523	3	19	.....	.....	.....	.....	.....	.....	523	3	11
Materials and Methods.....	524	3	19	524	3	6	.....	.....	.....	.....	.....	.....
Shop Planning and Equipment.....	525	3	7	.....	.....	.....	525	3	7	.....	.....	.....
Special Problems in Industrial Education.....	626	3	8	.....	.....	.....	626	3	17	626	3	30
Industrial Arts for Elementary Teachers.....	402	2	26	.....	.....	.....	.....	.....	.....	.....	.....	.....
JOURNALISM												
News Collecting and News Writing.....	401	5	13	401	5	76	401	5	24	401	5	28
News Collecting and News Writing.....	402	5	.....	402	5	14	402	5	49	402	5	15
Agricultural Journalism.....	407	3	.....	407	3	13	.....	.....	.....	407	3	24
Agricultural Journalism.....	408	3	.....	.....	.....	.....	408	3	8	.....	.....	.....
Trade and Technical Journalism.....	413	3	.....	.....	.....	.....	.....	.....	.....	413	3	5
Copy Reading.....	501	3	.....	501	3	20	.....	.....	.....	501	3	29
Feature Writing.....	502	3	8	.....	.....	.....	502	3	42	.....	.....	.....
Newspaper Ethics and Principles.....	513	3	4	.....	.....	.....	513	3	45	.....	.....	.....
Newspaper Law.....	514	3	.....	514	3	11	.....	.....	.....	514	3	21
Newspaper History and Compar. Journalism	517	5	.....	.....	.....	.....	517	5	34	.....	.....	.....
Newspaper Organization.....	518	5	.....	518	5	23	.....	.....	.....	518	5	13
The Community Paper, Weekly and Daily....	525	3	.....	.....	.....	.....	525	3	11	.....	.....	.....
The Newspaper Business Office.....	526	3	.....	526	3	13	.....	.....	.....	526	3	18
Newspaper Problems.....	607	2	.....	607	2	25	.....	.....	.....	607	2	4
Newspaper Problems.....	608	2	6	.....	.....	.....	608	2	24	.....	.....	.....
Editorial Writing.....	621	3	.....	621	3	20	.....	.....	.....	621	3	17
Public Opinion in Making.....	622	3	.....	.....	.....	.....	622	3	25	.....	.....	.....

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
LATIN												
Advanced Reading .....	353	1	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Roman Art and Archaeology .....	357	1	12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Proseminary .....	366	1	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advance Reading .....	603	3	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Roman Art and Archaeology .....	608	3	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Proseminary, II .....	616	3	7	.....	.....	.....	.....	.....	.....	.....	.....	.....
Methods of Teaching Latin .....	617	3	17	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elementary Latin .....	.....	.....	.....	401	5	62	.....	.....	.....	.....	.....	.....
Cicero: Orations .....	.....	.....	.....	404	5	28	.....	.....	.....	.....	.....	.....
Cicero, Horace, Ovid .....	.....	.....	.....	406	5	42	.....	.....	.....	.....	.....	.....
Catullus, Pliny, Tacitus .....	.....	.....	.....	601	3	11	.....	.....	.....	.....	.....	.....
Advanced Reading: Petronius .....	.....	.....	.....	603	3	10	.....	.....	.....	.....	.....	.....
Roman Private Life .....	.....	.....	.....	607	3	9	.....	.....	.....	.....	.....	.....
Proseminary I .....	.....	.....	.....	615	3	11	.....	.....	.....	.....	.....	.....
Methods of Teaching Latin .....	.....	.....	.....	617	3	8	.....	.....	.....	.....	.....	.....
Elementary Latin and Caesar .....	.....	.....	.....	.....	.....	.....	402	5	44	.....	.....	.....
Vergil .....	.....	.....	.....	.....	.....	.....	405	5	11	.....	.....	.....
Horace, Livy, Gellius .....	.....	.....	.....	.....	.....	.....	407	5	33	.....	.....	.....
Advanced Reading: Vergil .....	.....	.....	.....	.....	.....	.....	604	3	16	.....	.....	.....
Latin Prose Composition, I .....	.....	.....	.....	.....	.....	.....	612	3	7	.....	.....	.....
Caesar .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	403	5	20
Latin Comedy .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	408	5	22
Sallust .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	409	5	13
Latin Satire .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	602	3	6
Comparative Literature .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	3	11
Roman Art and Archaeology .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	608	3	11
Historical Latin Grammar: Inflections .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	609	3	7
Roman Public Life .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	611	3	5
Latin Prose Composition, II .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	613	3	5
Proseminary, II .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	616	3	6
COLLEGE OF LAW												
GEORGE W. RIGHTMIRE .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Contracts .....	.....	.....	.....	.....	3	150	.....	3	130	.....	3	123
Negotiable Instruments .....	.....	.....	.....	.....	4	92	.....	.....	.....	.....	.....	.....



Judgments and Bankruptcy.....	.....	.....	.....	.....	.....	.....	.....	4	95	.....	.....	.....
Public Utilities .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	111
A. H. TUTTLE	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Torts .....	.....	.....	.....	.....	3	146	.....	3	120	.....	3	110
Criminal Law.....	.....	.....	.....	.....	5	147	.....	.....	.....	.....	.....	.....
Constitutional Law.....	.....	.....	.....	.....	.....	.....	.....	5	85	.....	3	75
CLARENCE D. LAYLIN	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Equity .....	.....	.....	.....	I	4	113	.....	II	3	104	.....	.....
Equity .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Equity .....	.....	.....	.....	III	3	101	.....	.....	.....	.....	.....	.....
Trusts .....	.....	.....	.....	.....	.....	.....	.....	4	90	.....	.....	.....
Conflict of Laws.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	52
Domestic Relations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	113
LEWIS M. SIMES	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Property IV.....	.....	.....	.....	.....	4	93	.....	.....	.....	.....	.....	.....
Quasi-Contracts .....	.....	.....	.....	.....	3	101	.....	.....	.....	.....	.....	.....
Property III.....	.....	.....	.....	.....	.....	.....	.....	4	105	.....	.....	.....
Private Corporations.....	.....	.....	.....	.....	.....	.....	.....	3	91	.....	3	87
Property II.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	111
ROBERT E. MATHEWS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Civil Procedure.....	.....	.....	.....	.....	3	127	.....	.....	.....	.....	.....	.....
Wills and Administration .....	.....	.....	.....	.....	3	99	.....	.....	.....	.....	.....	.....
Agency .....	.....	.....	.....	.....	.....	.....	.....	3	116	.....	.....	.....
Property I.....	.....	.....	.....	.....	.....	.....	.....	4	114	.....	.....	.....
Partnership .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	97
Mortgages and Suretyship .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	95
DEAN JOHN J. ADAMS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Public Corporations.....	.....	.....	.....	.....	3	100	.....	.....	.....	.....	.....	.....
Code Pleading.....	.....	.....	.....	.....	4	99	.....	.....	.....	.....	.....	.....
Evidence .....	.....	.....	.....	.....	.....	.....	.....	3	109	.....	.....	.....
Practice I .....	.....	.....	.....	.....	.....	.....	.....	3	92	.....	.....	.....
Practice II .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	90
Evidence .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	104
Ethics—five lectures, Spring quarter, 93 students	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
MATHEMATICS	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Elementary Analysis I.....	431	5	14	431	5	374	431	5	176	.....	.....	.....
Elementary Analysis II.....	432	5	18	.....	.....	.....	432	5	284	432	5	170
Elementary Analysis III.....	433	5	21	433	5	80	.....	.....	.....	433	5	252
Mathematics of Statistics.....	435	5	7	.....	.....	.....	435	5	6	.....	.....	.....
Calculus (Differential).....	441	5	15	441	5	275	441	5	95	.....	.....	.....
Calculus (Integral).....	443	5	12	443	5	67	443	5	36	443	5	181
Theory of Functions of a Complex Variable.....	607	5	4	.....	.....	.....	607	5	3	.....	.....	.....
Differential Equations .....	611	5	11	.....	.....	.....	611	5	17	.....	.....	.....
Projective Geometry .....	623	5	16	.....	.....	.....	.....	.....	.....	623	5	18
Teaching of Mathematics.....	681	5	21	681	5	16	.....	.....	.....	.....	.....	.....
Concepts of Elementary Mathematics.....	684	5	11	.....	.....	.....	684	5	11	.....	.....	.....
Seminary in Mathematics.....	800	3	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sub-Freshman Mathematics.....	.....	.....	.....	400	3	114	.....	.....	.....	.....	.....	.....

# THE WORK OF INSTRUCTORS—1923-1924—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Mathematics for Students of Agriculture.....	.....	.....	.....	407	5	68	407	5	52	407	5	43
Elementary Analysis .....	.....	.....	.....	421	5	123	421	5	36	.....	.....	.....
Selected Topics in Algebra.....	.....	.....	.....	424	5	56	.....	.....	.....	.....	.....	.....
Mathematics of Finance.....	.....	.....	.....	429	5	25	429	5	23	429	5	13
Differential and Integral Calculus.....	.....	.....	.....	442	5	42	442	5	219	442	5	88
Calculus (Advanced).....	.....	.....	.....	601	5	16	.....	.....	.....	.....	.....	.....
Elementary Theory of Equations.....	.....	.....	.....	641	5	18	.....	.....	.....	.....	.....	.....
Probability .....	.....	.....	.....	691	5	6	.....	.....	.....	.....	.....	.....
Introduction to Higher Algebra.....	.....	.....	.....	851	5	2	.....	.....	.....	.....	.....	.....
Fourier's Series and Spherical Harmonics.....	.....	.....	.....	861	5	.....	.....	.....	.....	.....	.....	.....
Elementary Analysis IV.....	.....	.....	.....	.....	.....	.....	422	5	79	422	5	33
Mathematics of Insurance.....	.....	.....	.....	.....	.....	.....	430	5	7	430	5	2
Modern Synthetic Geometry.....	.....	.....	.....	.....	.....	.....	621	5	12	.....	.....	.....
Solid Analytic Geometry.....	.....	.....	.....	.....	.....	.....	625	5	5	.....	.....	.....
Foundation of Analysis Situs.....	.....	.....	.....	.....	.....	.....	810	5	3	.....	.....	.....
Algebraic Invariants .....	.....	.....	.....	.....	.....	.....	852	5	4	.....	.....	.....
Actuarial Theory .....	.....	.....	.....	.....	.....	.....	693	5	3	.....	.....	.....
Elementary Analysis .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	423	5	30
Differential Equations .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	612	5	11
Vector Analysis.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	661	5	16
Advanced Actuarial Theory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	694	5	3
Point Set Theory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	812	5	2
Differential Invariants .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	853	5	4
	.....	.....	158	.....	.....	1287	.....	.....	1071	.....	.....	866
Dropped Mathematics .....	.....	.....	.....	.....	.....	75	.....	.....	54	.....	.....	46
Left University .....	.....	.....	.....	.....	.....	25	.....	.....	43	.....	.....	25
Total number registered.....	.....	.....	.....	.....	.....	1387	.....	.....	1168	.....	.....	937
MECHANICAL ENGINEERING												
Steam Engineering.....	403	3	7	.....	.....	.....	.....	.....	.....	403	3	20+14
Heat—Power Engineering.....	405	3	6*	.....	.....	.....	.....	.....	.....	405	3	31+29
Practical Experience in a Mechanical Engineering Industry (Ten Weeks).....	439	5	18	.....	.....	.....	.....	.....	.....	.....	.....	+18
Heat—Power Engineering.....	.....	.....	.....	.....	.....	36+	.....	.....	31+	.....	.....	.....
Heat Engines.....	.....	.....	.....	505	3	28	506	3	25	.....	.....	.....
Machine Design.....	.....	.....	.....	507	4	17	.....	.....	.....	513	5	26+27



Mechanical Engineering Laboratory.....	521	3	5†	521	2	23+24	522	3	28+25	523	3	20+24
Heating and Ventilating.....	.....	.....	.....	551	2	+23	.....	.....	+15	.....	.....	+22
Power Generation and Transmission.....	.....	.....	.....	560	5	30	.....	.....	.....	.....	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	.....	.....	9	.....	.....	.....	.....	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	573	5	25+	572	3	14	.....	.....	.....
Mechanical Engineering Laboratory.....	.....	.....	.....	591	5	19	.....	3	23+	.....	.....	.....
.....	.....	.....	.....	.....	.....	16	.....	.....	18	.....	.....	.....
Steam Engineering.....	603	5	4*	603	5	35+	.....	5	26+	.....	.....	.....
.....	.....	.....	.....	.....	.....	17	.....	.....	19	.....	.....	.....
Heating and Ventilating.....	.....	.....	.....	605	3	17+	.....	.....	.....	605	4	16+30
.....	.....	.....	.....	.....	.....	22	.....	.....	.....	.....	.....	.....
Mechanism.....	.....	.....	.....	614	4	24+	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	26	.....	.....	.....	.....	.....	.....
Mechanism Drawing.....	.....	.....	.....	.....	.....	.....	616	2	26+	.....	.....	.....
Gas Engines and Producers.....	.....	.....	.....	.....	.....	.....	.....	.....	20	.....	.....	.....
Materials of Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	625	3	24+17
Inspection Trip—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	627	3	18+15
Reading Course—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	630	.....	40
Practical Experience in a Mechanical Engineering Plant (Ten Weeks).....	639	5	1	.....	.....	.....	.....	.....	.....	634	.....	4
A. S. M. E. Student Branch Meetings.....	.....	.....	.....	651	½	47	652	½	47	653	½	42
.....	.....	.....	.....	.....	.....	.....	.....	.....	14+11	.....	.....	15+10
Mechanical Engineering Laboratory.....	664	3	4†	.....	.....	.....	664	3	+15	665	3	+14
Automotive Engineering.....	.....	.....	.....	701	3	17	702	3	16	703	3	13
Industrial Engineering.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	713	3	23
.....	.....	.....	.....	.....	.....	35+	.....	.....	36+	.....	.....	.....
Machine Design.....	.....	.....	.....	727	5	33	728	5	30	744	5	37+21
Applied Thermodynamics.....	.....	.....	.....	.....	.....	.....	729	3	5	.....	.....	.....
Inspection Trip—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	730	.....	37
Reading Course—one week.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	734	.....	1
Hydraulic Machinery.....	.....	.....	.....	.....	.....	.....	742	3	26	742	3	19
Steam Turbines.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	746	3	11
Special Design.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	747	3	13
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	2+1
Thesis Work.....	.....	.....	.....	.....	.....	.....	748	3	+1	748	3	+2
Hydraulic Power.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	750	4	2
A. S. M. E. Student Branch Meetings.....	.....	.....	.....	751	½	42	752	½	40	753	½	38
.....	.....	.....	.....	.....	.....	11+10	.....	.....	14+17	.....	.....	16+10
Mechanical Engineering Laboratory.....	779	3	4	779	3	+16	780	3	+8	781	3	+8
Mechanical Engineering Laboratory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	793	3	4
Research Work.....	.....	.....	.....	801	15	1	802	15	1	803	15	1

\* Courses 405 and 603 and † Courses 507 and 664 were given as one course.

## MECHANICS

Statics.....	601	5	6	601	5	136	601	5	59	601	5	75
Strength of Materials.....	602	5	8	602	5	67	602	5	103	602	5	41
Strength of Materials (for Architects).....	.....	.....	.....	.....	.....	.....	604	3	5	.....	.....	.....
Strength of Materials, Kinetics, Hydraulics.....	603	5	18	603	5	8	603	5	62	603	5	111

## THE WORK OF INSTRUCTORS—1924-1925—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
<b>MEDICINE</b>												
Physical Diagnosis.....	.....	.....	.....	.....	.....	.....	601	3	50	.....	.....	.....
General and Clinical Medicine.....	.....	.....	.....	602	5	75	603	5	75	604	5	75
Nervous Diseases.....	.....	.....	.....	605	3	75	.....	.....	.....	.....	.....	.....
Genito-Urinary Diseases.....	.....	.....	.....	.....	.....	.....	607	3	75	.....	.....	.....
Dermatology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	3	75
Hospital Ward Clinics.....	.....	.....	.....	601	2	89	602	2	89	603	2	88
Medicine.....	.....	.....	.....	608	2	89	609	2	89	610	2	88
Pediatrics.....	.....	.....	.....	616	2	89	616	2	89	617	2	88
Therapeutics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	614	2	88
Psychiatry.....	.....	.....	.....	.....	.....	.....	611	1	89	.....	.....	.....
<b>METALLURGY</b>												
Metallurgical Analysis.....	.....	.....	.....	451	3	42	.....	.....	.....	.....	.....	.....
Fuels and Fuel Testing.....	.....	.....	.....	601	5	21	.....	.....	.....	.....	.....	.....
Principles of Ore Dressing.....	.....	.....	.....	620	5	7	.....	.....	.....	.....	.....	.....
Pyrometry.....	.....	.....	.....	650	2	21	.....	.....	.....	.....	.....	.....
Fuels.....	.....	.....	.....	651	3	64	.....	.....	.....	.....	.....	.....
Gas Testing and Calorimetry.....	.....	.....	.....	652	1	50	.....	.....	.....	.....	.....	.....
Advanced Metallography.....	.....	.....	.....	701	4	7	.....	.....	.....	.....	.....	.....
Ore Dressing.....	.....	.....	.....	720	3	7	.....	.....	.....	.....	.....	.....
Coal Preparation.....	.....	.....	.....	721	3	New Course	.....	.....	.....	.....	.....	.....
Metallurgical Analysis.....	.....	.....	.....	.....	.....	.....	405	5	16	.....	.....	.....
Fire Assaying.....	.....	.....	.....	.....	.....	.....	410	3	13	.....	.....	.....
Metallurgical Analysis.....	.....	.....	.....	.....	.....	.....	451	3	2	.....	.....	.....
Ceramic Analysis.....	.....	.....	.....	.....	.....	.....	452	4	27	.....	.....	.....
Iron and Steel Metallurgy.....	.....	.....	.....	.....	.....	.....	605	5	10	.....	.....	.....
Principles of Metallography.....	.....	.....	.....	.....	.....	.....	606	2	10	.....	.....	.....
Calorimetry and Advanced Fuel Analysis.....	.....	.....	.....	.....	.....	.....	608	3	2	.....	.....	.....
Principles of Ore Dressing.....	.....	.....	.....	.....	.....	.....	620	5	12	.....	.....	.....
Fuels.....	.....	.....	.....	.....	.....	.....	651	3	31	.....	.....	.....
Technical Gas and Fuel Analysis.....	.....	.....	.....	.....	.....	.....	655	3	2	.....	.....	.....
Heat Treatment and Special Steels.....	.....	.....	.....	.....	.....	.....	702	3	7	.....	.....	.....
Metallurgical Construction.....	.....	.....	.....	.....	.....	.....	705	4	6	.....	.....	.....
Principles of Gas Engineering.....	.....	.....	.....	.....	.....	.....	709	6	1	.....	.....	.....
Metallurgical Investigations.....	.....	.....	.....	.....	.....	.....	710	3	11	.....	.....	.....

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Metal Analysis.....	406	5	8
Fire Assaying.....	410	3	16
Ceramic Analysis.....	453	4	16
Metallurgical Analysis.....	454	4	5
Non-Ferrous Metallurgy.....	610	5	8
Inspection Trip.....	645	.....	6
General Metallurgy.....	665	5	22
Metallurgical Construction.....	706	4	8
Metallurgical Investigations.....	711	5	7
Thesis.....	725	5	16

#### MILITARY SCIENCE AND TACTICS

Military Science Infantry.....	401	1	1423	402	1	1250	403	1	1137
Military Science Infantry.....	404	1	883	405	1	850	406	1	784
Military Science Advanced Infantry.....	507	3	37	508	3	42	509	3	37
Military Science Advanced Infantry.....	510	3	46	511	3	49	512	3	44
Military Science Field Artillery.....	421	1	447	422	1	402	423	1	379
Military Science Field Artillery.....	424	1	208	425	1	206	426	1	187
Military Science Advanced Field Artillery.....	527	3	40	528	3	39	529	3	36
Military Science Advanced Field Artillery.....	530	3	35	531	3	35	532	3	32
Military Science Signal Corps.....	444	1	58	445	1	60	446	1	54
Military Science Advanced Signal Corps.....	547	3	33	548	3	35	549	3	35
Military Science Advanced Signal Corps.....	461	1	25	462	1	31	463	1	26
Military Science Medical Basic Course.....	464	1	22	465	1	19	466	1	16
Military Science Medical Basic Course.....	567	1	0	568	1	0	569	1	0
Military Science Medical Advanced Course.....	570	1	30	571	1	30	572	1	28
Military Science Dental Basic Course.....	451	1	55	452	1	53	453	1	52
Military Science Dental Basic Course.....	454	1	36	455	1	36	456	1	37
Military Science Dental Advanced Course.....	557	1	6	558	1	6	559	1	6
Military Science Dental Advanced Course.....	560	1	12	561	1	12	562	1	12
Military Science Veterinary Basic Course.....	471	1	6	472	1	8	473	1	8
Military Science Veterinary Basic Course.....	474	1	4	475	1	4	476	1	5
Military Science Veterinary Advanced Course.....	577	1	15	578	1	13	579	1	11
Military Science Veterinary Advanced Course.....	580	1	13	581	1	12	582	1	12

#### MINE ENGINEERING

Mine Surveying.....	401	5	16	.....	.....	.....	.....	.....	.....
Surveying.....	501	5	12	.....	.....	.....	.....	.....	.....
Development and Methods of Mining.....	701	3	9	.....	.....	.....	.....	.....	.....
Mine Investigations.....	750	3-5	4	.....	.....	.....	.....	.....	.....
Principles of Mining.....	760	3	3	.....	.....	.....	.....	.....	.....
Thesis.....	740	2	1	.....	.....	.....	.....	.....	.....
Mapping.....	.....	.....	.....	402	2	12	.....	.....	.....
Mine Operations.....	.....	.....	.....	702	5	10	.....	.....	.....
Mine Design.....	.....	.....	.....	711	5	7	.....	.....	.....
Thesis.....	.....	.....	.....	740	2	5	.....	.....	.....
Mine Design.....	.....	.....	.....	712	5	1	.....	.....	.....
Thesis.....	.....	.....	.....	741	5	2	.....	.....	.....
Mine Investigations.....	.....	.....	.....	750	4	2	.....	.....	.....
Mining Investigations.....	.....	.....	.....	801	3	1	.....	.....	.....

[illegible]



Medical Pathology.....			Avg.			Avg.			Avg.	606	2	35
Post-mortem Demonstration.....	607	1	10	607	1	10	607	1	10	607	1	10
Advanced Pathology.....				608	3	10	609	3	12	610	3	10
Neuropathology .....				619	1	1						
Advanced Special Pathology.....				611	3	3	612	3	2	613	3	3
Advanced Clinical Pathology.....				616	3	2	617	3	3	618	3	15
General Pathology (Dental).....				450	3	20	451	3	20			
Dental Pathology .....										452	2	20
Pathology (Applied Optics) .....				450	3	10	451	3	10			
Pathology of the Eye.....				460	3	6	461	3	6			
PHARMACY												
Pharmacy .....				401	5	147						
Pharmacy .....							401	5	20			
Pharmacy .....							402	5	123			
Pharmacy .....										402	5	19
Pharmacy .....										403	5	120
Pharmacy .....				404	5	93						
Pharmacy .....							404	5	16			
Pharmacy .....							405	5	88			
Pharmacy .....										405	5	15
Pharmacy .....				406	5	15				406	5	91
Materia Medica .....				407	3	99						
Materia Medica .....							407	3	14			
Materia Medica .....							408	3	99			
Materia Medica .....										408	3	12
Materia Medica .....										409	3	94
Pharmaceutical Assaying .....				410	5	21						
Pharmaceutical Assaying .....							411	5	22			
Pharmaceutical Assaying .....										412	5	21
Pharmacognosy (Microscopical) .....				413	3	123						
Pharmacognosy (Microscopical) .....							413	3	9			
Pharmacognosy (Microscopical) .....							414	3	108	414	3	11
Pharmacognosy (Microscopical) .....				415	3	7				415	3	106
Pharmacognosy (Microscopical) .....				417	3	20						
Pharmacognosy (Microscopical) .....							417	3	19			
Pharmacognosy (Microscopical) .....										418	3	16
Toxicology .....				419	5	14				419	5	89
Pharmaceutical Latin.....				420	4	76	420	4	64			
Pharmaceutical Latin.....							421	4	57	421	4	60
Commercial Pharmacognosy.....				422	5	66				422	5	78
Commercial Pharmacy.....				423		96						
Commercial Pharmacy.....							424	2	100			
Pharmaceutical Problems.....				425	2	130	425	2	34			
Pharmaceutical Problems.....							426	2	118	426	2	29
Biological Reagents and Testing.....							427	2	26	427	2	63
Current Literature (Technical).....										428	2	94
PHILOSOPHY												
Introduction to Philosophy.....	301	2	9									
	401	5	48	401	5	85	401	5	83	401	5	138

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Logic .....	402	5	31	402	5	33	402	5	62	402	5	120
Ethics .....	305	12	20	.....	.....	.....	.....	5	30	.....	.....	.....
.....	405	5	26	405	5	41	405	5	30	405	5	90
Hebrew Ideas in the Old Testament.....	.....	.....	.....	.....	.....	.....	407	5	22	.....	.....	.....
Origin and Development of Religious Ideas.....	.....	.....	.....	408	5	32	.....	.....	.....	.....	.....	.....
Aesthetics .....	.....	.....	.....	415	5	31	415	5	36	.....	.....	.....
Ancient and Mediaeval Philosophy.....	.....	.....	.....	601	5	11	.....	.....	.....	.....	.....	.....
Modern Philosophy .....	602	5	17	.....	.....	.....	602	5	7	.....	.....	.....
Contemporary Philosophy.....	.....	.....	.....	.....	.....	.....	605	5	40	603	5	24
Origins of Our Moral Ideas.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
American Philosophy .....	.....	.....	.....	606	3	19	.....	.....	.....	610	3	22
Origins of Christian Thought.....	.....	.....	.....	623	3	7	.....	.....	.....	.....	.....	.....
Plato .....	.....	.....	.....	.....	.....	.....	624	3	2	.....	.....	.....
Aristotle and Plotinus.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	653	3	24
Philosophy of Religion.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	656	3	31
Social Ethics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	660	1	1
Minor Problems .....	.....	.....	.....	661	3	2	.....	.....	.....	.....	.....	.....
Metaphysics of Knowledge and Nature.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Metaphysics of Personality and Values.....	662	3	4	.....	.....	.....	.....	.....	.....	.....	.....	.....
Seminary in Systematic Philosophy.....	801	3	2	802	3	2	803	3	1	804	2	1
Research .....	808	3	1	809	3	2	810	3	2	811	3	1
Seminary in Social and Political Philosophy.....	.....	.....	.....	.....	.....	.....	816	3	1	.....	.....	.....
Thesis .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PHYSICAL EDUCATION												
MEN												
Hygiene .....	.....	.....	.....	400	1	613	400	1	588	400	1	677
Physical Education.....	.....	.....	.....	401	1	1976	402	1	1801	403	1	1609
WOMEN												
Hygiene .....	.....	.....	.....	400	1	320	400	1	318	400	1	135
Physical Education.....	.....	.....	.....	421	1	756	422	1	693	423	1	635
Physical Education.....	.....	.....	.....	425	1	647	426	1	580	427	1	545
PROFESSIONAL												
Theory and Practice of Physical Education...	.....	.....	.....	441	3	18	442	3	18	.....	.....	.....
Theory and Practice of Physical Education...	.....	.....	.....	.....	.....	.....	.....	.....	.....	443	2	20
Theory and Practice of Physical Education...	.....	.....	.....	445	3	4	.....	.....	.....	.....	.....	.....



Theory and Practice of Physical Education.....	.....	.....	.....	.....	.....	446	3	8	.....	.....	.....	
Theory and Practice of Physical Education...	.....	.....	.....	.....	.....	.....	.....	.....	447	3	10	
Elementary Folk Dancing.....	461	1	23	.....	.....	.....	.....	.....	.....	.....	.....	
Advanced Folk Dancing.....	462	2	Disc	continued	.....	.....	.....	.....	.....	.....	.....	
Elementary Interpretative Dancing.....	464	1	12	.....	.....	.....	.....	.....	.....	.....	.....	
Advanced Interpretative Dancing.....	466	1	Disc	continued	.....	.....	.....	.....	.....	.....	.....	
Sports Technique.....	470	1	12	.....	.....	.....	.....	.....	.....	.....	.....	
Sports Technique.....	471	1	17	.....	.....	.....	.....	.....	.....	.....	.....	
First Aid.....	473	1	80	.....	.....	.....	.....	.....	.....	.....	.....	
Organization and Administration of Physical Education in Secondary Schools.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Play and Playground.....	481	1	30	.....	.....	.....	.....	.....	.....	.....	.....	
Gymnastics for the Lower Grades.....	482	1	34	.....	.....	.....	.....	.....	.....	.....	.....	
Gymnastics for the Upper Grades.....	490	1	33	.....	.....	.....	.....	.....	.....	.....	.....	
Gymnastics for the Upper Grades.....	491	1	28	.....	.....	.....	.....	.....	.....	.....	.....	
Therapeutics Gymnastics and Physical Examinations.....	.....	.....	.....	.....	.....	.....	.....	.....	493	3	12	
Principles of Coaching Football.....	501	2	26	.....	.....	.....	.....	.....	.....	.....	.....	
Advanced Football Technique.....	502	1	11	.....	.....	.....	.....	.....	.....	.....	.....	
Principles of Coaching Basketball.....	504	1	30	.....	.....	504	1	10	.....	.....	.....	
Principles of Coaching Track and Field Sports.....	508	1	22	.....	.....	.....	.....	.....	.....	.....	.....	
Principles of Coaching Baseball.....	512	1	10	.....	.....	.....	.....	.....	.....	.....	.....	
Theory and Practice of Physical Education.....	.....	.....	.....	541	3	37	542	3	38	543	3	35
Theory and Practice of Physical Education...	.....	.....	.....	545	3	17	546	3	16	547	3	18
History and Principles of Physical Education.....	681	3	14	.....	.....	.....	.....	.....	.....	.....	.....	
History and Principles of Physical Education...	.....	.....	.....	.....	.....	683	5	17	.....	.....	.....	
Kinesiology .....	.....	.....	.....	691	3	10	.....	.....	.....	.....	.....	
PHYSICS												
General Physics—Mechanics and Heat.....	.....	.....	.....	401	5	71	.....	.....	401	5	19	
General Physics—Sound, Light, Electricity.....	.....	.....	.....	.....	.....	402	5	27	.....	.....	.....	
General Physics—Mechanics and Heat.....	.....	.....	.....	403	5	120	.....	.....	.....	.....	.....	
General Physics—Sound, Light, Electricity.....	404	5	18	.....	.....	404	5	108	.....	.....	.....	
Advanced General Physics—Mechanics and Heat .....	.....	.....	.....	407	5	5	.....	.....	.....	.....	.....	
Advanced General Physics—Sound, Light and Electricity .....	.....	.....	.....	.....	.....	.....	408	5	7	.....	.....	
General Physics: Mechanics.....	.....	.....	.....	411	5	145	411	5	27	.....	.....	
General Physics: Heat, Sound, Light.....	.....	.....	.....	.....	.....	.....	412	5	119	.....	.....	
General Physics: Electricity.....	.....	.....	.....	.....	.....	.....	.....	.....	413	5	128	
Teaching of Physics.....	.....	.....	.....	.....	.....	.....	.....	.....	420	3	5	
Agricultural Physics—Mechanics, Heat, Electricity .....	.....	.....	.....	421	5	29	421	5	78	421	5	33
General Physics for Engineers—Mechanics and Heat to Conduction.....	.....	.....	.....	431	5	191	431	5	88	431	5	20
General Physics for Engineers—Heat (completed), Sound and Light.....	432	5	17	.....	.....	.....	432	5	176	.....	.....	.....
General Physics for Engineers—Electricity and Magnetism .....	.....	.....	.....	433	5	47	.....	.....	433	5	104	
Electricity and Magnetism.....	.....	.....	.....	435	3	117	.....	.....	.....	.....	.....	
Electricity and Magnetism.....	.....	.....	.....	.....	.....	436	5	55	.....	.....	.....	
Electrical Measurements and Photometry.....	.....	.....	.....	.....	.....	.....	.....	.....	437	5	77	

## THE WORK OF INSTRUCTORS—1924-1925—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Electrical Measurements and Photometry.....	.....	.....	.....	438	4	53	.....	.....	.....	.....	.....	.....
Advanced Laboratory Mechanics and Heat....	602	3	2	602	3	2	.....	.....	.....	602	3	6
Advanced Laboratory Radiation.....	603	3	10	603	3	3	603	3	3	.....	.....	.....
Advanced Laboratory Electrical Measurements	604	3	12	604	3	3	.....	.....	.....	604	3	4
Advanced Laboratory Ionization and Radio-activity	.....	.....	.....	.....	.....	.....	605	3	20	.....	.....	.....
Advanced Light.....	.....	.....	.....	.....	.....	.....	608	4	13	607	4	7
Advanced Electricity.....	608	4	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Molecular Physics and Heat.....	.....	.....	.....	609	4	8	.....	.....	.....	.....	.....	.....
Conduction of Electricity through Gases and Radioactivity	.....	.....	.....	.....	.....	.....	.....	.....	.....	610	4	8
Modern Spectroscopy	611	4	11	.....	.....	.....	.....	.....	.....	.....	.....	.....
Advanced Theory of Light.....	.....	.....	.....	801	3	3	802	3	3	.....	.....	.....
Advanced Theory of Light.....	.....	.....	.....	805	3	7	806	3	6	.....	.....	.....
Theory of Electricity and Magnetism.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	807	3	5
Theory of Electricity and Magnetism.....	.....	.....	.....	809	3	2	810	3	2	811	3	2
Theory of Oscillations.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Theory of Oscillations.....	.....	.....	.....	830	3	4*	881	3	9†	832	3	14‡
Research Laboratory	830	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Research Laboratory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Research Laboratory	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
PHYSIOLOGICAL CHEMISTRY, PHARMACOLOGY, AND MATERIA MEDICA												
Physiological Chemistry.....	.....	.....	.....	603	3	22	.....	.....	.....	.....	.....	.....
Physiological Chemistry.....	.....	.....	.....	601	5	105	.....	.....	.....	.....	.....	.....
Physiological Chemistry.....	.....	.....	.....	.....	.....	.....	602	5	95	.....	.....	.....
Physiological Chemistry.....	.....	.....	.....	.....	.....	.....	802	3	3	.....	.....	.....
Physiological Chemistry (Dentistry).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	401	3	90
Physiological Chemistry (Vet. Med.).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	401	3	12

\* Two of these joint theses with Chemistry Department.

† Four of these joint theses with Chemistry Department.

‡ Five of these joint theses with Chemistry Department.



Physiological Chemistry.....	.....	.....	.....	.....	.....	.....	.....	.....	803	3-5	6
Pharmacology.....	.....	.....	.....	.....	.....	.....	.....	.....	605	5	57
Materia Medica.....	.....	.....	.....	.....	.....	.....	.....	.....	606	5	65
PHYSIOLOGY											
Physiology.....	.....	.....	.....	401	5	50	.....	.....	.....	.....	.....
Physiology.....	.....	.....	.....	.....	.....	.....	402	5	49	.....	.....
General Physiology.....	.....	.....	.....	403	5	286	.....	5	60	.....	.....
General Physiology.....	.....	.....	.....	.....	.....	.....	404	5	225	404	5
Comparative Physiology.....	.....	.....	.....	413	4	10	.....	.....	.....	.....	50
Comparative Physiology.....	.....	.....	.....	.....	.....	.....	414	4	8	.....	.....
Principles of Physiology.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	419	5
Physiology of the Eye.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	440	3
Physiology for Nurses.....	.....	.....	.....	.....	.....	18	.....	.....	.....	.....	7
Advanced Physiology.....	.....	.....	.....	.....	.....	.....	602	5	8	.....	.....
Advanced Physiology.....	.....	.....	.....	605	6	127	.....	.....	.....	.....	.....
Advanced Physiology.....	.....	.....	.....	.....	.....	.....	606	2	37	606	2
Physiological Laboratory.....	.....	.....	.....	.....	.....	.....	612	5	12	.....	57
Physiological Laboratory.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	613	.....
Research Physiology.....	.....	.....	.....	.....	.....	.....	802	5	1	.....	1
Disseration.....	.....	.....	.....	.....	4	2	.....	4	2	.....	4
Disseration.....	.....	.....	.....	.....	.....	.....	.....	.....	402	.....	9
Total each Quarter.....	.....	.....	.....	.....	.....	493	.....	.....	.....	.....	223
Total for Year—1118	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
POLITICAL SCIENCE											
American Federal Government.....	401	5	43	401	5	239	401	5	208	401	5
Government and Politics of Foreign Countries	402	5	24	402	5	37	402	5	105	402	5
American State and Local Governments.....	403	5	12	.....	.....	.....	403	5	29	403	5
State Legislative and Administrative Problems	.....	.....	.....	.....	.....	.....	.....	.....	.....	604	3
Municipal Government.....	.....	.....	.....	607	5	18	.....	.....	.....	.....	11
Municipal Functions.....	.....	.....	.....	.....	.....	.....	608	3	14	.....	.....
Introduction to Jurisprudence.....	.....	.....	.....	611	5	27	.....	.....	.....	.....	.....
International Law.....	.....	.....	.....	.....	.....	.....	612	3	34	.....	.....
Contemporary International Politics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	613	5
American Constitutional Law.....	.....	.....	.....	616	3	11	.....	.....	.....	.....	32
History of Political Theories.....	.....	.....	.....	.....	.....	.....	619	3	14	.....	.....
Recent Political Theories.....	620	3	21	.....	.....	.....	.....	.....	.....	620	3
Research in Political Science.....	802	5	5	801	5	1	802	5	3	803	5
POULTRY HUSBANDRY											
Farm Poultry Production.....	406	5	17	.....	.....	.....	.....	.....	.....	.....	.....
Farm Poultry.....	.....	.....	.....	401	2½	48	401	2½	38	.....	.....
Poultry Judging and Breeding.....	.....	.....	.....	402	5	7	.....	.....	.....	.....	.....
Feeding and Housing.....	.....	.....	.....	.....	.....	.....	601	3	18	.....	.....
Incubation and Brooding.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	408	5
Marketing Poultry Products.....	.....	.....	.....	603	3	3	.....	.....	.....	.....	12
Poultry Farm Management.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	605	3
Special Problems.....	701	3	1	703	3	1	701	3	1	701	3

## THE WORK OF INSTRUCTORS—1924-1925—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
PRINCIPLES AND PRACTICE OF EDUCATION												
Principles of Education.....	301	2	197	401	5	149	401	5	116	401	5	211
Principles of Education.....	302	2	136	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of Elementary School Teaching.....	303	2	41	430	5	11	.....	.....	.....	.....	.....	.....
Teaching Arithmetic and Science in Elementary Schools.....	304	2	45	.....	.....	.....	.....	.....	.....	.....	.....	.....
Teaching of English Studies in Elementary Schools.....	305	2	65	.....	.....	.....	493	4	24	.....	.....	.....
Teaching of Social Studies in Elementary Schools.....	306	2	27	494	4	30	.....	.....	.....	.....	.....	.....
Methods of Teaching in Rural Schools.....	307	2	32	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural School Curriculum.....	308	2	8	.....	.....	.....	.....	.....	.....	.....	.....	.....
Supervised Study.....	311	2	55	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles and Methods of Junior High School Teaching.....	314	2	40	.....	.....	.....	420	5	30	.....	.....	.....
Principles and Methods of Junior High School Teaching.....	315	2	18	.....	.....	.....	.....	.....	.....	.....	.....	.....
Principles of Secondary Education.....	335	2	21	405	3	22	.....	.....	.....	.....	.....	.....
Principles of Secondary Education.....	336	2	6	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural School Management.....	337	2	33	.....	.....	.....	.....	.....	.....	.....	.....	.....
Moral Ideals in Education.....	350	2	52	.....	.....	.....	601	4	25	.....	.....	.....
Cultural and Vocational Ideals in Education.....	352	2	39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Conceptions of Mind in Educational Theory.....	354	2	64	620	3	49	.....	.....	.....	.....	.....	.....
Modern Tendencies in Education.....	356	2	69	.....	.....	.....	.....	.....	.....	640	3	104
Supervision of Teaching in Secondary Schools.....	357	2	37	610	3	17	.....	.....	.....	.....	.....	.....
Supervision of Teaching in Secondary Schools.....	358	2	23	.....	.....	.....	.....	.....	.....	.....	.....	.....
Supervision of Elementary School Teaching.....	360	2	22	.....	.....	.....	.....	.....	.....	613	3	13
Supervision of Elementary School Teaching.....	361	2	14	.....	.....	.....	.....	.....	.....	.....	.....	.....
Problems of Curriculum Construction in Secondary Education.....	362	2	41	.....	.....	.....	625	5	23	.....	.....	.....
Problems of Curriculum Construction in Secondary Education.....	363	2	27	.....	.....	.....	.....	.....	.....	.....	.....	.....
Rural Teacher Training.....	372	2	10	.....	.....	.....	.....	.....	.....	.....	.....	.....
Methods of High School Teaching.....	.....	.....	.....	410	5	50	410	5	115	.....	.....	.....
Practice Teaching in Secondary Schools.....	.....	.....	.....	440	5	110	.....	.....	.....	440	5	141



Curriculum Construction in Elementary Education				614	3	21							
Experimental Elementary Schools				615	3	11							
Elementary Teacher Training				616	4	8							
Minor Problems	650	3	8	651	3	2	652	3	103	653	3	4	
Methods and Problems of Physical Sciences				660	4	4							
Seminary in Educational Theory	801	3	8	802	3	25	803	3	25	804	3	14	
Seminary in Secondary Education	810	3	3	811	3	4				813	3	1	
Seminary in Elementary Education							826	3	6	827	3	4	
Major Research				851	6	5	852	6	3	853	6	6	
The School and the Community							460	5	43				
Survey of Scientific Investigations in Elementary School Subjects										612	3	9	
Social Education										645	3	39	

## PSYCHOLOGY

Elementary Psychology	401	5	200	401	5	518	401	5	302	401	5	460	
Elementary Psychology	402	5	32	402	5	311	402	5	323	402	5	269	
Elementary Psychology (Agricultural students)				405	3	14							
Educational Psychology	407	5	260	407	5	234	407	5	165	407	5	160	
Psychology of Effective Study	411	3	4				411	3	6				
Experimental Psychology—Introduction	601	3	6	601	3	16							
Experimental Psychology—Intermediate							602	3	7				
Experimental Psychology—Advanced										603	3	3	
Physiological Psychology				605	3	55							
Advanced Physiological Psychology							606	3	20				
Genetic Psychology and Child Study	607	5	34							607	5	134	
Mental and Social Measurement				608	3	12							
The Exceptional Child	609	3	92							609	3	110	
The Mentally Deficient Child	611	3	66	611	3	34							
Advanced Mental and Social Measurements							612	3	6				
Mental and Educational Tests	613	3	41	613	3	20							
Laboratory in Mental and Educational Tests	615	3	10				615	3	9				
Binet Mental Tests	616	2	8	616	2	7							
Elementary Psychological Clinic	617	2	5				617	2	13				
Clinical Mental Tests										618	2	10	
Advanced Psychological Clinic										619	2	6	
Practicum in Mental Diagnosis	620	2	3	620	2	6	620	2	1	620	2	2	
Social Psychology	621	3	30				621	3	107				
Folk Psychology				623	3	22							
Comparative Psychology							627	3	19				
Advanced Educational Psychology	628	3	14							628	3	24	
Advanced Psychology	629	5	11				629	5	19				
Psychology of Feeling and Emotion										630	5	15	
Theory of Intelligence							631	3	19				
Psychology of Language							633	3	9				
Criminal and Legal Psychology							634	5	60				
Psychology of Advertising				635	3	90							
Advertising Laboratory							636	3	7				
Industrial Psychology				637	3	16							

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Industrial and Vocational Psychology Laboratory .....							638	3	1	638	3	3
Psychology and Personnel.....	639	3	12				639	3	22			
Educational and Vocational Guidance.....	640	3	16				640	3	13			
Abnormal Psychology.....							641	5	89			
History of Psychology.....							645	5	8			
Theoretical Psychology.....				647	3	20						
Minor Problems.....	650	*	13	650	*	14	650	*	12	650	*	14
Psychology of Elementary School Subjects....	651	3	18				651	3	14			
Psychology of High School Subjects.....	652	3	17	652	3	28						
Major Research.....	801	*	12	801	*	21	801	*	10	801	*	25
Contemporary Psychological Literature.....				805	1	2						
Psycho-Analysis .....				808	2	23						
Seminary in Psychology.....				803	2	21	803	2	10	803	2	14
PUBLIC HEALTH												
ELEMENTARY COURSES (NURSING)												
History and Principles of Nursing.....				406	3	64	406	3	68	406	3	71
Child Health .....										403	3	22
Elementary Nursing (To be discontinued) ..							407	2	0			
PUBLIC-HEALTH NURSING COURSES												
Principles of Public-health Nursing.....				404	5	20	404	5	19	404	5	18
Preventive Medicine (for Nurses).....							451	3	20			
Public-health Nursing Field Work.....				452	7	2	453	7	4	454	7	4
Seminary in Public-health Nursing.....							456	2	0			
EDUCATIONAL NURSING										653	3	13
SCIENCE-NURSING (501-516 inclusive)	No registrants.			Awaiting accomodations.								
ADVANCED AND GRADUATE COURSES												
Personal Hygiene.....							{ 601	3	31			
							{ 801	3	0			
Public-health Problems.....				{ 602	3	17				602	3	27
				{ 802	4	0						

\* Research courses—Number of hours credit varies from 3 to 7 with individual students.



Industrial Hygiene.....	.....	.....	.....	.....	.....	{ 603	3	18	.....	.....	.....	
Preventive Medicine.....	.....	.....	.....	.....	.....	803	5	1	.....	.....	87	
Tropical Diseases.....	.....	.....	.....	.....	.....	605	2	88	606	2	0	
Demography.....	.....	.....	.....	.....	.....				607	2	0	
Social Service and Public-health Nursing.....	.....	.....	.....	.....	.....				807	2	0	
Communicable Diseases.....	.....	.....	.....	.....	.....	809	4	0	.....	.....	.....	
Public Health Laboratory.....	(No Instructor or facilities)	.....	.....	.....	.....	813	4	.....	814	4	.....	
Major Research.....	.....	.....	.....	.....	.....				815	4	.....	
Medical Aspects P. H. Engineering (New Course).....	.....	.....	.....	.....	.....				816	6	0	
WORK BY STAFF FOR OTHER UNIVERSITY DE- PARTMENTS.	.....	.....	.....	.....	.....				817	2	0	
Medicine, General and Clinical.....	.....	.....	.....	.....	.....	602	2 of	5	36	.....	.....	
Dispensary Clinics.....	In charge of	.....	.....	.....	.....	603	5	36	.....	.....	.....	
University Hospital Training School.....	.....	.....	.....	.....	.....	9 hours	.....	1	9 hours	1-2	of 14	
Mechanical Engineering.....	(14 lectures	.....	.....	.....	.....				713	3	25	
General Hospital No. 99, Org. Res. U. S. A..	(1 hour per	.....	.....	.....	.....							
Miscellaneous Departments.....	(Several lectures)	.....	.....	.....	.....							
STATE WORK—DIRECTING Correspondence Study Course for Public Health Officials and teach- ing 4 weeks assignments of same—35 stu- dents completed, 90 still registered												
ROMANCE LANGUAGES												
Elementary French.....	401	5	26	401	5	316	401	5	132	401	5	90
Elementary French (Continued).....	402	5	22	402	5	76	402	5	217	402	5	116
Intermediate French.....	403	5	13	403	5	214	403	5	48	403	5	132
Intermediate French (Continued).....	404	5	16	404	5	83	404	5	122	404	5	49
Elementary Course in Reading of French.....	.....	.....	.....	405	5	10	.....	.....	.....	.....	.....	.....
Elementary Course in the Reading of French (Continued).....	.....	.....	.....	.....	.....	.....	406	5	6	.....	.....	.....
Advanced French.....	.....	.....	.....	407	5	28	.....	.....	.....	.....	.....	.....
Elementary French Conversation and Composi- tion.....	621	5	18	410	5	34	410	5	43	410	5	59
French Literature of the Seventeenth Century, 1600-1660.....	.....	.....	.....	601	5	29	.....	.....	.....	601	5	24
French Literature of the Seventeenth Century, 1660-1700.....	602	5	16	.....	.....	.....	602	5	20	.....	.....	.....
French Literature of the Nineteenth Century, 1800-1850.....	.....	.....	.....	603	5	35	.....	.....	.....	603	5	19
French Literature of the Nineteenth Century, 1851-1900.....	.....	.....	.....	.....	.....	.....	604	5	37	.....	.....	.....
The Comedy of Manners in the Nineteenth Century, 1800-1880.....	.....	.....	.....	.....	.....	.....	611	3	12	.....	.....	.....
The Comedy of Manners in the Nineteenth Century, 1880-1922.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	612	3	14
History of French Literature, 942-1660.....	.....	.....	.....	.....	.....	.....	613	3	6	.....	.....	.....
History of French Literature, 1660-1922.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	614	3	11
The Teaching of French.....	622	3	15	.....	.....	.....	.....	.....	.....	622	3	23

[illegible]



Old Spanish (Continued).....	.....	.....	.....	.....	.....	.....	.....	.....	806	.....	5
Research in Spanish Literature.....	.....	.....	.....	.....	.....	.....	.....	.....	810	.....	3
Seminary in Spanish Literature.....	.....	.....	.....	.....	.....	815	.....	7	815	.....	7
Elementary Italian.....	.....	.....	.....	401	5	37	.....	.....	401	5	24
Elementary Italian (Continued).....	.....	.....	.....	.....	.....	.....	402	5	37	.....	.....
Modern Italian Literature, 1800-1850.....	.....	.....	.....	601	5	7	.....	.....	601	5	13
Modern Italian Literature, 1851-1900.....	.....	.....	.....	.....	.....	.....	602	5	4	.....	.....
Survey of Italian Literature to 1400.....	.....	.....	.....	.....	.....	.....	609	3	6	.....	.....
Survey of Italian Literature, 1400-1900.....	.....	.....	.....	.....	.....	.....	.....	.....	610	3	18
RURAL ECONOMICS											
Agricultural Economics.....	401	5	8	401	5	38	401	5	43	.....	.....
Farm Management.....	.....	.....	.....	402	5	21	.....	.....	402	5	27
Farm Bookkeeping.....	.....	.....	.....	403	3	10	403	3	15	.....	.....
The Distribution of Farm Products.....	.....	.....	.....	404	3	10	.....	.....	.....	.....	.....
Rural Community Life.....	405	5	5	405	5	12	.....	.....	.....	.....	.....
Accounting for County Organization.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Marketing.....	601	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Co-operation in Agriculture.....	603	3	6	.....	.....	.....	603	3	12	.....	.....
Land Tenure.....	.....	.....	.....	.....	.....	.....	.....	.....	604	3	8
The Agricultural Industry.....	.....	.....	.....	.....	.....	.....	605	3	15	.....	.....
Sociology of Farm Folk.....	.....	.....	.....	.....	.....	.....	606	5	8	.....	.....
Rural Organization.....	607	3	4	607	2	2	.....	.....	.....	.....	.....
Special Problems.....	701	3-5	3	701	3-5	5	701	3-5	6	701	3-5
Farm Management.....	.....	.....	.....	.....	.....	.....	Winter Courses		.....	.....	.....
Farm Accounts.....	.....	.....	.....	.....	.....	.....	.....	5	22	.....	.....
Farm Marketing.....	.....	.....	.....	.....	.....	.....	11	5	10	.....	.....
Rural Sociology.....	.....	.....	.....	.....	.....	.....	11	5	22	.....	.....
SCHOOL ADMINISTRATION											
Fundamentals in School Administration.....	403	3	178	403	3	98	403	3	137	403	3
Child Accounting.....	601	3	173	601	3	62	601	3	118	601	3
Administration of the Curriculum.....	604	3	22	.....	.....	.....	.....	.....	.....	604	3
The Teaching Corps.....	605	3	12	.....	.....	.....	605	3	9	.....	.....
Building and Equipment.....	606	3	22	606	3	13	.....	.....	.....	.....	.....
School Finance.....	607	3	35	.....	.....	.....	607	3	14	.....	.....
Business Management of Schools.....	608	3	22	.....	.....	.....	.....	.....	.....	608	3
Extra Curricular Activities.....	609	3	32	.....	.....	.....	609	3	12	.....	.....
Administration of Rural Education.....	610	3	32	610	3	10	.....	.....	.....	.....	.....
State Administration of Education in the U. S.	611	3	10	.....	.....	.....	.....	.....	.....	611	3
Educational Statistics.....	613	3	62	613	3	6	.....	.....	.....	.....	.....
Minor Research Problems.....	617	2-4	5	618	2-4	6	619	2-4	4	620	2-4
Proseminary (Teachers in Service).....	.....	.....	.....	621	2	9	622	2	6	623	2
Administration of Standard Tests in Elementary Schools.....	624	3	15	624	3	4	.....	.....	.....	.....	.....
Administration of Standard Tests in Secondary Schools.....	625	3	17	.....	.....	.....	625	3	9	.....	.....

THE WORK OF INSTRUCTORS—1924-1925—Continued

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COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Administration of Health Education.....	626	3	12	.....	.....	.....	.....	.....	.....	626	3	25
Administrative Problems of the Elementary School Principal.....	628	3	28	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administrative Problems of the Secondary School Principal.....	629	3	29	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administrative Problems of the City Superintendent.....	630	3	17	.....	.....	.....	.....	.....	.....	.....	.....	.....
Administration of Higher Education.....	802	2-5	50	801	3	3	802	2-5	11	802	2-5	15
Seminary in School Administration.....	802	2-5	50	802	2-5	13	802	2-5	11	802	2-5	15
Ad Interim Projects.....	804	3	1	805	3	3	806	3	3	803	2-5	7
Major Research Problems.....	804	3	1	805	3	3	806	3	3	807	3	5
SOCIOLOGY												
Principles of Sociology.....	401	5	92	401	5	209	401	5	181	401	5	250
Principles of Sociology.....	402	5	27	402	5	110	402	5	156	402	5	157
Elements of Social Administration.....	.....	.....	.....	410	5	46	410	5	53	406	4	14
Principles of Sociology.....	.....	.....	.....	411	5	46	.....	.....	.....	410	5	47
Physical Anthropology.....	.....	.....	.....	.....	.....	.....	412	5	46	.....	.....	.....
Social Anthropology.....	.....	.....	.....	500	2	27	500	2	44	.....	.....	.....
Primitive Man in Ohio.....	.....	.....	.....	601	4	35	.....	.....	.....	601	4	31
The Family.....	.....	.....	.....	605	4	42	.....	.....	.....	.....	.....	.....
The Immigrant.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	606	4	25
Promotion of Citizenship.....	.....	.....	.....	.....	.....	.....	607	4	75	.....	.....	.....
American Race Problems.....	.....	.....	.....	615	4	13	.....	.....	.....	.....	.....	.....
Poverty and Dependence.....	.....	.....	.....	.....	.....	.....	616	4	11	.....	.....	.....
The Handicapped, Defectives, and Dependents	.....	.....	.....	.....	.....	.....	.....	.....	.....	617	4	23
Needy Families and Children.....	617	4	10	.....	.....	.....	.....	.....	.....	625	3	86
The Criminal.....	.....	.....	.....	626	3	17	.....	.....	.....	.....	.....	.....
Penology.....	.....	.....	.....	.....	.....	.....	627	3	12	.....	.....	.....
Penology.....	.....	.....	.....	635	3	16	.....	.....	.....	.....	.....	.....
Social Statistics.....	.....	.....	.....	.....	.....	.....	636	3	14	.....	.....	.....
Social Statistics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	637	3	10
Social Statistics.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Leisure and Recreation.....	.....	.....	.....	645	4	40	.....	.....	.....	.....	.....	.....
Social Organization and Administration of Recreation Facilities.....	.....	.....	.....	.....	.....	.....	646	4	6	.....	.....	.....
Girls' Work Organization.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	651	4	10

THE OHIO STATE UNIVERSITY





## THE WORK OF INSTRUCTORS—1924-1925—Continued

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THE OHIO STATE UNIVERSITY

COURSE SUBJECT	SUMMER QUARTER			AUTUMN QUARTER			WINTER QUARTER			SPRING QUARTER		
	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections	Course No.	Credit Hours	Total No. of Students in All Sections
Surgery (General) .....				602	5	73	603	5	73	604	5	73
Surgery (Gynecology) .....										605	3	73
Surgery (Orthopedic) .....							606	1	88			
Surgery (Conference Clinics) .....				607	1	88	608	1	88	609	1	88
Surgery (Operative) .....				610	2	88						
Surgery (Roentgenology) .....				611	2	35						
Surgery (Industrial Surgery) Not offered this year .....												
Surgery (Seminary) Not offered this year .....												
Surgery (Ward Clinics) .....				601	2	88	602	2	88	603	2	88
VETERINARY MEDICINE												
Anatomy (Osteology of Domestic Animals) .....				401	5	6	401	5	4			
Anatomy (Arthrology, Myology, etc.) .....							402	6	10	403	6	12
Anatomy (Topographical Anat. of Dom. An.) .....				404	6	12	405	6	13			
Anatomy (Topographical Anat. of Dom. An.) .....				406	6	8				406	6	12
*Applied Anatomy .....							407	3	5			
General Pathology .....				422	2	21				421	3	11
Special Pathology .....							423	2	22	424	2	22
Post-mortem and Laboratory Diagnosis .....				430	1½	21	431	1½	21	432	1½	21
Post-mortem and Laboratory Diagnosis .....				433	1½	29	434	1½	29	435	1½	29
Special Pathology of Infectious Diseases .....				426	4	29						
Meat Inspection .....							427	3	29			
Parasitology .....							428	4	27			
Anatomy (Histology of the Dom. An.) .....							421	3	9	422	3	14
Medical and Surgical Clinics .....	467	3	4	467	3	22	468	3	22	469	3	21
Medical and Surgical Clinics .....	470	3	5	470	3	24	471	3	29	472	3	29
Special Surgery .....				474	4	29	475	4	29	476	4	29
Physical Diagnosis .....				473	3	22						
*Operative Practice .....				477	1	29						
Diseases of Small Animals .....				463	3	26	464	4	25			
Horseshoeing .....							465	3	24			
Materia Medica and Therapeutics .....							461	4	9	462	4	9
Hygiene and Sanitation .....										479	3	8
General Surgery .....				466	4	24						
Obstetrics .....										478	4	29
Sporadic Diseases of Large Animals .....							441	4	23	442	4	21



[illegible]

\* SHOWING THE WHOLE NUMBER OF DEGREES IN COURSE CONFERRED SINCE THE FOUNDING OF THE UNIVERSITY

[illegible]



# APPENDIX V—Concluded

	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925			
Master of Science				1							1	1	2	2	2			3	3	2	3	3	2	1									1	8	6	14	15	25	32	19	8	29	36	44	27	43	54				
Master of Science (Agriculture).....																	1	2		1										2	1	3	3	1																	
Master of Science (Dom. Sc.) .....																													1																						
Master of Science (H. F.) .....																				1	1	1										1																			
Master of Science in public health																																									3			1	1						
Master of Science in Social Admr..																																																			
Doctor of Philos- ophy.....	1											1													1		1	1		1																		1			
Doctor of Science..												1						1		1								1	1																						
Doctor of Dental Surgery .....																																																			
Doctor of Medicine																																																			
Juris Doctor .....																																																			
Bachelor of Laws															9	18	15	16	6	23	22	21	25	17	26	20	11	15	17	26	15	16	22	10	19	18	19	18	24	17	11		15	16	44	37	51	80			
Master of Laws....															2	4	2		6							2	3	1																							
Total .....	6	7	9	8	9	11	12	16	18	24	28	26	30	36	61	79	70	112	118	135	126	99	137	135	141	17	194	209	225	249	287	333	370	422	501	515	649	793	902	941	565	470	801	970	1054	1255	1382	1615			
Degrees conferred during the year															1													6	0	5	6	5	15																		
Totals .....															80													200	209	230	255	292	348																		

\* Statistics given prior to 1904 covered only the degrees granted at the Commencement.

## APPENDIX VI

## SHOWING THE NUMBER OF STUDENTS IN THE GENERAL, TECHNICAL, AND PROFESSIONAL COURSES

	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908
	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
General Courses (College of Arts).....	137	151	194	245	256	322	327	358	371	419	439	403	490	496	490	551	572	630	714
Technical Courses (other Colleges, except Law).....	166	259	381	368	424	453	453	511	541	603	771	888	1039	1135	1129	1262	1280	1436	1626
Professional Courses (College of Law).....	55	67	72	65	100	132	148	191	201	220	188	166	171	179	162	153	138	132	
*Graduate Students and Summer School.....	2			1		94	97	133	75	45	51	49	62	108	54	240	339	379	458
**Summer School (Shopwork).....														74	75	81	80	90	
Lake Laboratory (Summer).....												19		23	82	26	19	26	32
Totals.....	305	465	642	686	745	969	1009	1150	1178	1268	1481	1547	1757	1933	1958	2316	2444	2689	3052
Names counted twice.....																159	167	216	258
Net total.....																2157	2277	2473	2794

## APPENDIX VI—Concluded

	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
General Courses (Colleges of Arts, Commerce and Journalism, and Education).....	845	865	962	1009	1139	1494	1820	2198	2220	2558	3422	3802	4147	4493	5153	5519
Technical Courses (Other Colleges Except Dentistry, Homeopathic Medicine, Law, and Medicine).....	1643	1780	1979	2106	2392	2373	2491	2398	1884	2129	2733	3003	2982	2878	2791	2831
Professional Courses (Colleges of Dentistry, †Homeopathic Medicine, Law, and Medicine).....	181	170	185	198	187	615	556	514	384	300	718	611	688	724	766	830
Graduate Courses (Graduate School).....	96	70	97	128	133	185	244	233	161	143	208	269	382	488	594	743
Summer Session.....	606	617	738	575	671	926	1010	1166	918	909	1229	1391	1543	1925	2404	2724
Lake Laboratory (Summer).....	36	22	28	25	32	14	19	15	14	2	11	18	19	17	15	21
Winter Courses.....	159	183	273	227	203	187	173	187	119	121	178	86	121	87	76	81
Extension Course in Vocational Education.....																75
Total.....	3566	3707	4262	4268	4757	5794	6313	6711	5700	6162	8499	9180	9882	10612	11799	12824
Names counted twice.....	291	268	334	299	322	462	491	523	550	437	682	867	1032	1117	1311	1289
Net Total.....	3275	3439	3928	3969	4435	5332	5822	6188	5150	5725	7817	8313	8850	9495	10488	11535

\* Until 1896 graduate students have been included in the first three classes.

\*\* Until 1904 summer term students in shopwork have been included with graduate students.

† The teaching of Homeopathic Medicine in this University was discontinued on and after August 15, 1922.



## APPENDIX VII

SHOWING DEGREES AND CERTIFICATES GRANTED DURING  
YEAR ENDING JUNE 30, 1925

### SUMMER CONVOCATION—1924

#### GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

##### DOCTOR OF PHILOSOPHY

Andrew Irving Andrews, B.S., M.S. (University of Wisconsin).....	Oshkosh, Wis.
Arthur Talbot Bawden, B.S. (Denison University), M.Sc.....	Granville
Theodore N. Beckman, B.Sc. in Bus. Adm., M.A.....	Columbus
Jacob Work Bulger, B.Sc. in Agr. (South Dakota State College), M.Sc.....	Brookings, S. Dakota
Robert Stewart Hanson, B.A., M.Sc.....	Kent
Archie Oliver Heck, B.S. (Hedding College), M.S. (University of Illinois).....	Columbus
William Samuel Jones, A.B. (University of West Virginia), M.A.....	Morgantown, W. Va.
John Mouk Ort, B.Ch.E., M.Sc.....	Osborn
Robert Ambrose Osborn, B.S. (Ohio Northern University), M.Sc.....	Van Wert
Harold Theodore Reiner Ruff, B.Ch.E., M.Sc.....	Lancaster
Thomas Hadden Swan, B.A. (University of Mississippi), A.M. (Columbia University)	Oxford, Miss.
Donald Statler Villars, B.A. (Wilmington College), M.S.....	Wilmington
Helen Landman Wikoff, B.A., M.Sc.....	Columbus

(Thirteen Candidates)

##### MASTER OF ARTS

Harvey Miles Appleman, Ph.B. in Edu. (University of Chicago).....	Columbus
John Logan Auble, A.B. (Hillsdale College).....	Spencer
William Edgar Beeman, B.S. in Edu. (Ohio Northern University).....	Versailles
Mary Bolenbaugh, A.B. (Otterbein College).....	Canal Winchester
William Jesse Caplinger, B.A. (Wilmington College).....	Maysville, Ky.
Helen Elliott Cherington, B.Sc. in Edu.....	Columbus
Hsu Ching, Ph.B. (Denison University).....	Chungking, China
Gale Washington Cox, B.A. (Ohio Wesleyan University).....	West Mansfield
Montgomery Morton Culver, B.A. (Defiance College).....	McClure
Elizabeth Hunt Day, A.B. (Smith College).....	Massillon
Blaine Morrison DeLancey, A.B. (Marietta College).....	Marietta
Paul Heaney Dunn, A.B. (Miami University).....	Oxford
Mervin Arnold Durea, B.A.....	Huntington, W. Va.
Otta May Fisher, A.B. (Colorado State Teachers College).....	Huntington, W. Va.
Emily Lenore Fleming, B.A.....	Columbus
Mary Alice Fornshell, A.B. (Earlham College).....	Richmond, Ind.
Mabel Hartzell, A.B. (Mt. Union College).....	Alliance
Clara Belle Hicks, B.A. (Michigan State Normal College).....	Mt. Gilead
Wilbur Augustus Howe, A.B. (Bluffton College).....	Trenton
Charles Freeman Hughes, B.S. in Edu. (Ohio Northern University).....	Lima
Sing Tah Kee, B.A. (University of Washington).....	Haiman, China
Joseph Luke Kerpan, A.B. (Ohio Northern University).....	Ada
John Herbert Kiger, A.B. (Marysville College), M.A. (University of Cincinnati).....	Cincinnati
James Norman Kimble, B.A. (Washington Missionary College).....	Washington, D. C.
Merl Melvin Kindy, A.B. (Manchester College).....	Huntington, Ind.
Kiise Samuel King, B.A. (Defiance College).....	Bethel
Viola Click Marlatt, B.A. (Berea College).....	Defiance
John Hayes Morris, B.S. (Muskingum College).....	Roseville
Clyde Shields Nesbitt, B.Sc. in Edu.....	Bellaire
Janice Eleanor Padan, B.Sc. in Edu., B.A.....	Columbus

## THE OHIO STATE UNIVERSITY

Lotta Pugh, A.B. (Ohio University)	Jacobsburg
Paul Frederick Ries, B.A.	Kenton
Raymond Robert Ryder, A.B. (Juniata College)	Covington
James Walter Sappenfield, A.B. (University of Indiana)	Bloomington, Ind.
Gwendolyn Anita Saylor, B.S. in Edu. (Ohio University)	Corning
Hamilton Martin Smyser, B.A. (Ohio Wesleyan University)	Delaware
Dora Henrietta Summer, B.Sc. in Edu.	Shelby
James Earl Taylor, A.B. (Wittenberg College)	Springfield
Lorin Andrew Thompson, Jr., B.A.	Omaha, Neb.
Amanda Lee Thrasher, B.S. in Edu. (Ohio Northern University)	Oakwood
William Butler Treloar, A.B. (Greenville College)	Sharon, Pa.
Margaret Hastings Willson, B.A., B.Sc. in Edu.	Columbus
Floy Winks, A.B. (DePauw University)	Attica, Ind.
Thomas Howard Winters, B.A. (Ohio Wesleyan University)	Ironton

(Forty-four candidates)

## MASTER OF SCIENCE

Marvin Achterhof, A.B. (Hope College)	Zeeland, Mich
Tien I. Chen, A.B. (Morningside College)	Hinghwa, China
John Dudley Dawson, B.S. (Denison University)	Haskins
Dalton D. Dowds, B.Sc. in Agr.	Mt. Vernon
Cecil Elder, D.V.M. (Kansas State Agricultural College)	Laramie, Wyo.
Frederick Ernest Frey, B.S. (Wooster College)	Mansfield
Arthur Lee Hamner, B.S. (Alabama Polytechnic Institute)	Amory, Miss.
Stanley Macrae Hanley, A.B. (Wittenberg College)	Dickson, Tenn.
Robert Arthur Hefner, B.S. (Ohio Northern University)	LaFayette
Raymond George Hieber, B. S. (University of Dayton)	Dayton
James Edwin Hutchman, B.A. (Muskum College)	Columbus
Frank Gilbert Keenen, B.S. (Denison University)	Newark
Josef Nissley Knull, B.S. in Biology (Pennsylvania State College)	Hummelstown, Pa.
Hsing Ya Liu, E.M. (Michigan College of Mines)	Chihli, China
Toh Liu, B.S. (Peking Government Teachers College)	Peking, China
Stewart Everett Lower, A.B. (Manchester College)	North Manchester, Ind.
Joseph Amos Reeves, A.B. (Bethany College)	Bethany, W. Va.
Hugh Setterfield, A.B. (Wittenberg College)	Shelby
Floyd Franklin Smith, B.Sc. in Agr.	Brunswick
Harold Forester Thayer, B.S. (Michigan Agricultural College)	Columbus
Morrison Robert VanCleve, A.B. (University of Pennsylvania)	Toledo
Gerald Willam Wagner, B.A.	Bellaire
Seth Thomas Walton, A.B. (Carolina State College), D.V.M.	Jacksonville, N. C.
Abraham Hiebert Wiebe, A.B. (Bluffton College)	Steinboch, Canada

(Twenty-four candidates)

## CANDIDATE FOR TWO DEGREES

Chester Franklin Eicher	Dayton
Bachelor of Arts	
Bachelor of Science in Education	
(One candidate)	

## COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

## BACHELOR OF SCIENCE IN AGRICULTURE

Wilbur Joseph Barger	Sidney
Stanley Davis	Oak Hill
Ralph Samuel Harrod	Wapakoneta
Levi Harris Lukens	Harveysburg
Boyd Atkinson Olinger	Dayton
William Russell Rafferty	Shelbyville, Ind.
Louis Charles Rinear	Brecksville
Herbert Levere Snapp	Columbus

(Eight candidates)



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## BACHELOR OF SCIENCE IN HOME ECONOMICS

Addis Keren Barthelmeh.....	New Philadelphia
Dorothy Duckworth Dunham.....	Norwood
Genevieve Flora Hess.....	Mannington, W. Va.
Naomi Louise Ingram.....	Columbus
Audrey Lucile Maloney.....	Columbus
Ethel Jane Ransower.....	Columbus
Laura Anne Vigor.....	Plain City
Ardine Wildermuth.....	Columbus

(Eight candidates)

## COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

### BACHELOR OF ARTS

Josephine Julia Bambach.....	Columbus
Willard Harrison Bennett (with distinction).....	Norwalk
Eugene Saul Block.....	Columbus
Leslie Verne Burkett.....	Rawson
Edwin Milton Bush, Jr.....	Kennedy, N. Y.
Mary Martha Carter.....	Greenfield
Neva Chrisman.....	Berea, Ky.
Frank Earl Cooley, Jr.....	Cincinnati
John Horace Curry.....	East Palestine
*Chester Franklin Eicher.....	Dayton
Frank Conrad Emmerling.....	Norwood
Milton Louis Farber.....	Columbus
Marvin Gans.....	Cleveland
Dorothy Marie Giesen.....	Columbus
George Edgar Harvey.....	Canton
Lavena Elizabeth Herboltzheimer.....	Columbus
Frederick Vinton Hunt.....	Barnesville
Catherine Lau.....	Shanghai, China
Herbert Hirsch Lind.....	Zanesville
Aleen Q. V. McConahy.....	Cleveland
Ruth Martha McGonigle.....	Toledo
Lillian Elizabeth Meloy, B.Sc. in Edu.....	Groveport
Martha Caroline Peters.....	Delphos
Dorothy Kathryn Postle, B.Sc. in Edu.....	Columbus
Versus Vivian Powell.....	Scenery Hill, Pa.
Jack Price.....	Cleveland
Edith Mae Richardson.....	Brooklyn Heights
Emanuel Myron Rose.....	Cleveland
Alex Rubinstein.....	Columbus
Lester Seligson.....	Raleigh, N. C.
Mary Katherine Sharp.....	New Philadelphia
Violet Edwilda Sharp.....	Columbus
Phyllis Eugenia Smith.....	Columbus
Paul Carlyle Steel.....	Chagrin Falls
Mary Viola Tackleson.....	Dayton
Rachel Hughes Van Hook, B.Sc. in Edu.....	Columbus
Harry Charles Vollrath, Jr.....	Cincinnati
Madonna Lactyier Walker.....	Columbus
Charles Arna Wildman, B.S. in M.E. (Case School of Applied Science).....	Warren
Roger Eugene Williams.....	Linworth
Cecil John Zimmerman.....	Fremont

(Forty-one candidates)

\*Two Degrees

## THE OHIO STATE UNIVERSITY

## BACHELOR OF SCIENCE

William Warner Trostel.....	New Carlisle
(One candidate)	

## COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Ralph Oakley Bayles.....	Powell
Norton R. Cotterill.....	Dayton
George Edward Everett.....	Galion
Wilber Berdette Fess.....	Piqua
Clarence Frederick Fosnaugh.....	Columbus
Malcolm Theodore Graham.....	Belle Center
Elmer Christ Grossman.....	Columbus
Jen Chieh Hsu.....	Changka, China
John Anderson Hyslop, Jr.....	Cleveland
Stuart Adelbert Jenney.....	Cleveland
Fred William Keller.....	Swanton
Marc William Laibe.....	Pandora
George Emmett Locke.....	St. Louisville
William James Madison.....	Akron
Donald Lewis Mills.....	Columbus
Walter Atkinson Quick.....	Caldwell
Rollo Russell Sharrock.....	Galion
Edward Thomas Slackford.....	Sandusky
Keith Ramsey Smith.....	Clarksburg
Donald Forest Summers.....	Lilly Chapel
James Russell Trittipso.....	Newark

(Twenty-one candidates)

## BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Clara Earl Bayles.....	Columbus
Bertha Lee Herrington.....	Columbus
Mary Antoinette Newman.....	Columbus
Annida Clara Slavens.....	Columbus

(Four candidates)

## COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

## DOCTOR OF DENTAL SURGERY

William Jackson Barrick.....	Newark
Edgar Raymond Beach.....	Ironton
Clesson Howard Dougherty.....	Woodsfield
Herbert Samuel Goodloe.....	Huntington, W. Va.
Thomas Kenyon Reed.....	Massillon

(Five candidates)

## COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

## BACHELOR OF SCIENCE IN EDUCATION

Beatrice Louise Barker.....	Columbus
Clyde Othey Borrer.....	Orient
Louise Brown.....	Columbus
Nellie Edith Brown.....	Columbus
George Bertrand Crane, Jr.....	Findlay
Pearl Crawford.....	Ironton



Henry Kendall Datson.....	Youngstown
Daniel Osborne Davis, B.A.....	Oak Hill
Vera Lucy Dickinson.....	Columbus
Dorothy Donavon.....	Columbus
*Chester Franklin Eicher.....	Dayton
Clifton Thomas Falls.....	New Straitsville
Hazel Jeannette Faringer.....	Columbus
Avas Ina Ganson.....	Columbus
Nellie Best Gower.....	Greenville
Cleo Augusta Grace.....	Linworth
Olive Mae Hoover.....	Paris
Neva Ruth Hulshizer.....	Newark
Louise Medora Jones.....	Medina
Beulah Nadine Lamb.....	Payne
Beatrice Laughead.....	Columbus
Eleanor Louise Lehne.....	Columbus
Ruth Evelyn Lewis.....	Columbus
Betty Helen Ley.....	Columbus
Mary Florence McCarthy.....	Columbus
Helen Marie McCormick.....	Columbus
Sai E. McGrew.....	Columbus
Joseph Thomas Maddox.....	Short Creek
Elizabeth Sprafkin Melamed.....	Youngstown
Florence Louise Miller.....	Columbus
Dorothy Milligan.....	Columbus
Eleanor Louise Purpus.....	New Bremen
Luciano Raymundo.....	Laoag, P. I.
Lily Schindelman.....	Dayton
Myron Teal Seifert.....	Bremen
Charles Graydon Shower.....	Etna
Charles Ray Snider.....	Cincinnati
Dora Leah Sniderman.....	Youngstown
Donald Emerson Wiley.....	Coldwater
Miriam Williams.....	Cleveland
Isabel Ross Wilson.....	Akron

(Forty-one candidates)

\*Two Degrees

## COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

## BACHELOR OF CERAMIC ENGINEERING

Adolph Harmon Kuechler.....	Columbus
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(One candidate)

## BACHELOR OF ELECTRICAL ENGINEERING

John Milton Dunham.....	Dayton
Harlow William Rettig.....	Kenton
James Francis Stutsman.....	Payne

(Three candidates)

## BACHELOR OF MECHANICAL ENGINEERING

George Duncan Liddle.....	Youngstown
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(One candidate)

## BACHELOR OF METALLURGICAL ENGINEERING

Wilbur George Bischoff.....	Canton
John Roscoe Conklin.....	Bucyrus

(Two candidates)

## BACHELOR OF SCIENCE IN APPLIED ARTS

Will Franklin Young.....	Columbus
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(One candidate)

## THE OHIO STATE UNIVERSITY

## COLLEGE OF MEDICINE

Dean: EUGENE F. MCCAMPBELL

## DOCTOR OF MEDICINE

Edward Charles Brandt.....	New Straitsville
Robert Flinn Corwin, B.Sc.....	Ansonia
Edward Kimmel Cravener.....	Indiana, Pa.
Drew Lodwick Davies, B.A.....	Columbus
Moses Dolganos, B.Sc.....	Bayonne, N. J.
John Wright Larcomb.....	Columbus
Oscar Adair Lashley, B.Sc.....	Steubenville
Adolphus Marinella.....	Youngstown
Frank Norman Nagel.....	Toledo
Clarence Larimore Perry, B.A. (Ohio Wesleyan University).....	Delaware
Marion Dow Scholl, B.Sc.....	Bremen
Burdett Earl Shreffler, B.Sc.....	Fremont

(Twelve candidates)

## PROFESSIONAL CERTIFICATES

## CERTIFICATE IN PUBLIC HEALTH NURSING

Gertrude Austin Pavey.....	Columbus
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(One candidate)

## SUMMARY OF DEGREES AND CERTIFICATES

Graduate School.....	81
College of Agriculture.....	16
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	42
College of Commerce and Journalism.....	25
College of Dentistry.....	5
College of Education.....	41
College of Engineering.....	7
College of Medicine (12 degrees) (1 certificate).....	13
	231

Degrees and certificates—Women.....	78
Degrees and certificates—Men.....	153

231

Candidates for degrees and certificates.....	230
Candidates receiving two degrees.....	1

231

## GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

## AUTUMN CONVOCATION—1924

## DOCTOR OF PHILOSOPHY

Henry Gordon Hullfish, B.A. (University of Illinois), M.A.....	Columbus
Dwight Munson Moore, B.S., M.S. (Denison University).....	Zanesville
William Cave Phebus, A.B. (Miami University).....	Williamsport

(Three candidates)



## MASTER OF ARTS

Garry Eckard, A.B. in Edu. (Marshall College)	Pt. Pleasant, W. Va.
Thomas Herbert Everhart, A.B., Ph.B. (Ohio Northern University)	Creston
Albert Elza Gower, B.Sc. in Edu.	Arcanum
Hsiang Hung Li, B.A. (Cornell College)	Weiwei, China
Martha McCracken, B.A.	Columbus
Karl Chapman Pratt, B.A.	Wellington
Harold Emerson Ryder, B.S. in Edu., M.A. (Ohio Northern University)	Chardon
William Keith Wilson, B.A. (Rio Grande College)	Ironton

(Eight candidates)

## MASTER OF SCIENCE

Ralph Holmes Ferguson, B.Ch.E.	Jamestown
Chung Kwai Kao, (Government Teachers' College)	Wuchang, China
Adonis A. Mathewson, B.Sc. in Agr.	Maumee

(Three candidates)

## CANDIDATE FOR TWO DEGREES

Charles Chapman Smith	Columbus
Bachelor of Arts	
Doctor of Medicine	

(One candidate)

## COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

## BACHELOR OF SCIENCE IN AGRICULTURE

Dean Baxter Baker	Jewett
Philip Garrett Beck	Dresden
Walter Lemoine Bluck	West Lafayette
John Edwin Bradfute, A.B. (Cedarville College)	Xenia
Herman Jacob Brueckner	Cincinnati
Lee Harrison Dill	Sidney
Orland Charles Duke	Liverpool, W. Va.
Robert McKinley Grueninger	Cleveland
Harry Kauble	Forest
John Leslie McKittrick	Pennsville
Charles Lee Marshall	Cincinnati
Charles Suydam Merion	Columbus
Doris Spratt Stacy	Marietta

(Thirteen candidates)

## BACHELOR OF SCIENCE IN HOME ECONOMICS

Dorothea Ruth Haney	Columbus
Frances Jeanette Martin	Battle Creek, Mich.
Glenna Lucile Schlitt	Columbus

(Three candidates)

## COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

## BACHELOR OF ARTS

Wallace Winn Bacon	Albuquerque, New Mexico
Lillian Edwards Browne (with distinction)	Columbus
Mildred Willis Hindman	Columbus
Harriett Rea Hoffmann	Columbus
William Ralph Janeway	Columbus
George Durkee Kingdom	Conneaut

Nathan Robertson Knauer.....	Toledo
William David Lamb.....	Columbus
William Ernest McKinley.....	East Liverpool
Irma Elvira Melstrom.....	Cleveland
Lawrence Lynde Miller.....	East Cleveland
Paul George Minneman.....	Sidney
Mary Grace Monahan.....	Columbus
Steward George Morris.....	Jerusalem
Roye Clifton Munsell.....	Henryetta, Okla.
Charles Archie Phillips.....	Cleveland
Emma Helen Pond.....	De Graff
Anna Schatenstein.....	Columbus
Evalyn Jaffe Shulman (with distinction).....	Columbus
Roy Slentz.....	Napoleon
*Charles Chapman Smith.....	Columbus
Albert Francis Stout.....	St. Marys
Margaret Elizabeth Wilson.....	Columbus

(Twenty-three candidates)

\*Two Degrees

## COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

William Francis Boland.....	Columbus
Oliver Bert Combs.....	Columbus
Lawrence Fulton Craig.....	Mt. Vernon
Calvin Lloyd Donaldson.....	Logan
Carl Wendell Dowling.....	Toledo
Marvin Burke Eckford.....	Columbus
Dwight Edmond Friend.....	Columbus
Dwight Lewis Gingery.....	Nevada
Beatrice Louise Holland.....	Toledo
Abraham Bernard Kling.....	Cincinnati
Paul Joseph Ryan.....	Columbus
Paul Maxwell Shepard.....	Christiansburg
Russell Albert Summers.....	Lilly Chapel
Charles Worley.....	Columbus
Sung Ling Yao.....	Kweichow, China

(Fifteen candidates)

## BACHELOR OF SCIENCE IN JOURNALISM

Frank Henry Rumble.....	Van Wert
Wilbur Evan Snypp.....	Columbus
Raymond Daniel Trautman.....	Reading, Pa.

(Three candidates)

## COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

## BACHELOR OF SCIENCE IN EDUCATION

Mary Blakeley.....	Columbus
Frances Vivian Davis.....	Columbus
Harry Glenn Denius.....	Quaker City
Esther Maurine Dolby.....	Columbus
Etta Esakovich.....	Steubenville
Rose Finkelstein, B.A.....	Columbus
Katherine Fromme.....	Urbana
Gladys Irene Grace.....	Powell
Robert Gray, Jr.....	Lowellville



Charles Osborne Guy.....	Plain City
Mary Luella Hoffmann.....	Columbus
Anna Mary Jones.....	Columbus
Dorothy Virginia King.....	Salem
Mabel Elizabeth Law.....	Columbus
Bessie Leota Lyons.....	Chandlersville
Robin Beatrice McIntosh.....	Columbus
Josephine Ardelle Manny.....	Columbus
Gladys Eleanor Marshall.....	Brookville
Ruth Neal.....	Lockbourne
Ruth Marguerite Priest.....	Columbus
Cordelia Josephine Reussner.....	Columbus
Pauline Snyder.....	Bucyrus
Mabel Irene Thompson.....	Columbus
Esther George Treahay.....	Columbus
Helen Wible.....	Milford Center

(Twenty-five candidates)

## COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

## BACHELOR OF CHEMICAL ENGINEERING

Paul Oscar Holmstrom.....	Ashtabula
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(One candidate)

## BACHELOR OF CIVIL ENGINEERING

Desso T. Mitchell.....	Kalida
Frank Dewey Young.....	Toledo
William Ingram Zuercher.....	Dayton

(Three candidates)

## BACHELOR OF MECHANICAL ENGINEERING

Charles Isbell Cottingham.....	Columbus
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(One candidate)

## BACHELOR OF SCIENCE IN APPLIED OPTICS

William Joseph Granfield.....	Sandusky
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(One candidate)

## COLLEGE OF LAW

Dean: JOHN JAY ADAMS

## JURIS DOCTOR

Maynard McClure Donaldson, B.A., B.Sc. in Bus. Adm.....	Columbus
Lewis Daniel Houck, A.B. (Princeton University).....	Mt. Vernon

(Two candidates)

## BACHELOR OF LAWS

Evert E. Addison.....	Columbus
Alva William Bachman, A.B. (Oberlin College).....	Bowling Green
Lloyd Edwin Bilger.....	Willard
John Levitt Bodell.....	Columbus
Leland Stanford Dougan, A.B. (Marietta College).....	Pennsville
Isidore Walton Garek.....	Columbus
Cable Morgan Gibson.....	Nelsonville
Cameron Lon Meacham.....	Columbus
Don Randall Thomas, B.Sc. in Bus. Adm.....	Columbus
Christian Russell Wingerd, A.B. (Ohio Northern University).....	Middlebranch

(Ten candidates)

## THE OHIO STATE UNIVERSITY

## COLLEGE OF MEDICINE

Dean: EUGENE F. McCAMPBELL

## DOCTOR OF MEDICINE

Arlington Joseph Rawers.....	New Bremen
*Charles Chapman Smith.....	Columbus
Percy Barnette Wiltberger, B.Sc. in Ent., M.Sc.....	Columbus

(Three candidates)

\*Two Degrees

## COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

## BACHELOR OF SCIENCE IN PHARMACY

John Rufus Gibson.....	Selma
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(One candidate)

## PROFESSIONAL CERTIFICATES

## CERTIFICATE OF PHARMACEUTICAL CHEMIST

Guy Homer Baker.....	Galion
Hyman Sanford Dennis.....	Cleveland
James Hammond Donovan.....	Lancaster
Maurice William Horton.....	East Liverpool
Harry Miller.....	Cleveland
Francis Lesley Mills.....	Columbus
James Mehollin Moore.....	Cadiz
Fred Bingham Warden.....	Byesville

(Eight candidates)

## SUMMARY OF DEGREES AND CERTIFICATES

Graduate School.....	14
College of Agriculture.....	16
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	23
College of Commerce and Journalism.....	18
College of Education.....	25
College of Engineering.....	5
College of Law.....	12
College of Medicine.....	3
College of Pharmacy (1 degree) (8 certificates).....	9
	126
Degrees and certificates—Women.....	36
Degrees and certificates—Men.....	90
	126
Candidates for degrees and certificates.....	125
Candidate receiving two degrees.....	1
	126



## GRADUATE SCHOOL

Dean: WILLIAM MCPHERSON

## WINTER CONVOCATION—1925

## DOCTOR OF PHILOSOPHY

Rachel Hartman Edgar, B.Sc. in H. E., B.A., M.Sc.	Coshocton
Walter Seneff Hough, A.B. (Leland Stanford University), M.A.	Winchester, Virginia
Clarence William Kreger, A.B. (Miami University), M.A. (University of Illinois)	Oxford
(Three candidates)	

## MASTER OF ARTS

Hew-Yi Cheng, A.B. (Baldwin-Wallace College)	Foochow, China
Tom Burns Haber, A.B., B.Sc. in Edu. (Ohio Northern University)	Rossburg
Frank Raymond Hunt, B.A. (Muskingum College)	Gilmore
Ralph Livingston, B.Sc. in Edu. (Ohio Northern University)	Carey
John Maynard Purdy, A.B. (DePauw University)	Fillmore, Indiana
John Gamaliel Slade, D.V.M.	Portsmouth
(Six candidates)	

## MASTER OF SCIENCE

Foster Lee Gambrell, B.Sc. in Agr. (Clemson Agricultural College)	Pendleton, South Carolina
Jesse R. Harrod, B.Sc. in Edu., B.S. (Ohio Northern University)	Ada
Arlan Russell Hershberger, B.A. (Western Union College)	East Canton
Harold Clarke Lewis, B.S. in Ent. (Colorado Agricultural College)	Carpinteria, California
Winfred Nay McCutchan, B.S. in Agr. (Purdue University)	Milligan, Indiana
John Oscar Pepper, B.Sc. in Agr. (Clemson Agricultural College)	Easley, South Carolina
Harmon Avery Runnels, B.A.	Johnstown
Cheng No Sun, B.A.	Shantung, China
Homer Scott Swingle, B.Sc. in Agr.	Columbus
(Nine candidates)	

## COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

## BACHELOR OF SCIENCE IN AGRICULTURE

Harold Wilson Barger	Sidney
Ashley Andrew Brandon	Coldwater
Harold William Derge	Defiance
Carroll Ellis Eby	Columbus
Clarence Lea Felshaw	Birmingham
Arthur Takuji Fujimoto	Shizuoka, Japan
John Daulton Guthrie	Cincinnati
Paul Michael Hess	Mannington, West Virginia
Carey Russell Huston	Xenia
Henry Walter Ingersoll, Jr.	Elyria
Merlin Perry Jones	Laura
Benjamin Everett Leigh, B.S. (Hedding College)	London Mills, Illinois
Ralph Howard Lichtl	New Philadelphia
Herman McGee Linton	Frost
Dwight Pierre Miller	Lancaster
Ralph Lester Miller	Foster
Russell Warner Oberlin	Navarre
Palmer Curtis Peck	Clarksburg
Lavera Merton Potter	Solon
Lloyd Reiling	Dayton
Roy Roller	Van Wert
Gerald Henry Springer	Celina
Robert Leroy Thomas	Dayton
James McClintock Trumbull	Belle Center

## THE OHIO STATE UNIVERSITY

Leonidas Orman Walker.....	Worthington
Ralph France Walter.....	Brooklyn Heights
Rolla Harmon Wileman.....	Ravenna
Francis Alvin Wolfe.....	Bradley
Samuel Healea Work.....	Dennison

(Twenty-nine candidates)

## BACHELOR OF SCIENCE IN HOME ECONOMICS

Rose Budnick Engilman.....	Xenia
Mabel Genevieve Hall.....	Columbus
Martha Dorothy Riegel.....	Amanda
Edna Florence Solomon.....	Columbus

(Four candidates)

## COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

## BACHELOR OF ARTS

Robert Simeon Adams.....	Richwood
Elwyn Emerson Bazell.....	Columbus
Marion Waterman August Boesel (with high distinction).....	New Bremen
Elmer Bowers (with high distinction).....	Dresden
Dorothy Maude Calkins (with distinction).....	Buffalo, New York
Cyrus Kryder Carroll.....	Columbus
Harmon Marbold Chapman (As of the Class of 1922).....	Portland, Oregon
Mary Magdalene Daugherty.....	Columbus
Julia Octive Forster.....	Columbus
Esther Carman Gilbert.....	Columbus
Harold Mostyn James (As of the Class of 1924).....	Steubenville
May Helser Jenkins.....	Columbus
Louise Cable Jones.....	Columbus
Cal Clement Kersell.....	Columbus
Lois Elinor Lawrence.....	Columbus
Isabel Blanche Lock.....	Cleveland Heights
Herbert Nelson McCoy.....	Seville
Vernon Lemont Miller.....	Troy
Adelbert Marion Mills.....	Ashtabula
Henry Moser.....	Wapakoneta
Victor Luster Parks.....	East Cleveland
Clara Ann Roberts, B.Sc. in Edu. (Ohio Northern University).....	Bucyrus
Leslie Leland Robinson.....	Columbus
Harry Best Trace.....	New Concord
Earl Eugene Watson.....	Bellefontaine
Byron Franklin Wenger.....	Canton

(Twenty-six candidates)

## COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Richard Arthur Cartmell.....	Springfield
Neil King Der Mott.....	Columbus
Dwight Ware Free.....	Good Hope
Jerome Englander Grossman.....	Kansas City, Kansas
William Serage Kutschbach.....	Columbus
William Donald LaRocco.....	Cleveland
Albert A. Leguia.....	Chiclayo, Peru
Chun Hua Leo.....	Hankow, China
John Anthony Lyden.....	Youngstown



Paul Coleman Packard.....	Columbus
Max Manuel Rosen.....	Steubenville
Paul Bernard Schardt.....	Dayton
John Robert Tanner.....	London
George Delbert Thompson.....	Canton
Richard Carlton Webster.....	Van Wert

(Fifteen candidates)

## BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Homer William Morgenthaler.....	Marion
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(One candidate)

## COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

## BACHELOR OF SCIENCE IN EDUCATION

Helen Bowles Banks.....	Columbus
Naomi Esther Decker.....	Columbus
Jessie Ferguson, A.B. (University of Chattanooga).....	Columbus
Marywood Hyatt.....	New Paris
Daniel Lawrence Kennon, B.A. (Cedarville College).....	Cedarville
Mary Jaretta Scott.....	Columbus
Kuo Hua Sun.....	Shantung, China
Laura Eleanor Tress.....	Columbus
Florence Frances Turowsky.....	Youngstown
Cecil Minos Ward.....	Ashville
Eliza Washburn.....	Columbus
Lewis Philip Weiser.....	Sunbury
Frances Emilie Welch.....	Dennison

(Thirteen candidates)

## COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

## BACHELOR OF ARCHITECTURE

Octave Ammon.....	Columbus
James Leonard Blue (As of the Class of 1916).....	Piqua

(Two candidates)

## BACHELOR OF CERAMIC ENGINEERING

Millard Gladding Ammon.....	Columbus
Clinton Dudley Clawson.....	Hamilton

(Two candidates)

## BACHELOR OF CIVIL ENGINEERING

William Lawrence Anderson.....	Columbus
Peter Boris Baggs.....	Columbus
Russell Gilbert Glass.....	Euclid
Richard Rayner Grant.....	Springfield
James Joseph McCarthy.....	Columbus
Howard Limon Mathews.....	Centerburg
Robert Boone Nauts.....	Columbus
David Henry Overman.....	Waverly
Charles Raymond Ross.....	Columbus
James Hamill Shields.....	Mt. Vernon
John Ernest Taylor.....	Ironton
Merrill Blair Wittman.....	Cove

(Twelve candidates)

Arthur Christian Avril.....	Cincinnati
Frank Augustine McNamee.....	Columbus
(Two candidates)	

Aubrey Ottarson Bradley, B.A. (Ohio Wesleyan University), M.Sc. .... Columbus  
Leonard Thomas Capell, B.Ch.E., M.Sc. .... Columbus  
Marion William Caskey, A.B., M.A. (Baylor University) .... Waco, Texas



Clifford Reginald Cutright, B.A., M.Sc.	Columbus
Howard Leroy Dunlap, B.S. (Ohio University), M.A.	Columbus
Paul Randolph Farnsworth, B.A., M.A.	Columbus
Henry Bohn Hass, B.A. (Ohio Wesleyan University), M.A.	Columbus
George Preston Hoff, B.A., M.Sc.	Cleveland
William Vermillion Houston, B.A., B.Sc. in Edu.; M.Sc. (University of Chicago)	Columbus
Walter Harrison Larrimer, B.Sc. in For.; M.S. (Purdue University)	Columbus
Alfred Ernest McGee, B.S., M.S. (Louisiana State University)	Orange, Texas
August Edward Miller, B.Sc. in Agr., M.Sc.	Zanesville
Robert Lee Morton, B.Sc. in Edu. (Ohio University), M.A.	Brownsville
Henry Francis Palmer, Jr., A.B. (Dartmouth College), M.Sc.	Middleboro, Mass.
Louis Abell Pappenhagen, B.S. (Allegheny College), M.Sc. (Northwestern University)	Delaware
Marion Capps Reed, B.S. (Kansas State Agricultural College), M.Sc.	Canyon City, Colo.
Charles Adolph Weigel, B.Sc. (New Hampshire State College), M.Sc.	Washington, D. C.
Florence Jane Williamson, A.B. (Cedarville College), M.A.	Cedarville
Arthur J. Yaney, B.A. (Ohio Wesleyan University), M.Sc.	Wauseon
(Nineteen candidates)	

## MASTER OF ARTS

Morna Leo Adams, Ph.B. (Denison University)	Columbus
Francis Robert Aumann, B.A. (Ohio Wesleyan University)	Delaware
Helen Fayerma Behrens, B.Sc. in Edu.	Columbus
Hilda Maurine Bell, B.A.	Grand Rapids, Mich.
Loyd Slavens Bloomfield, B.Sc. in Edu.	Lewis Center
Mabel Cranston Briney, A.B. (Miami University)	Woodstock
Ethel Amelia Brown, B.A. (College of Wooster)	Ironton
Henry Clyde Carlton, A.B. (Hiram College)	Mantua
Ruth Carson, Ph.B. (College of Wooster)	Toronto
Harold Kennerley Casterton, B.Sc. in Bus. Adm.	Columbus
Edna Maria Clark, B.A.	Columbus
Lester David Condit, A.B. (Miami University)	Urbana
Francis Herrick Connors, B.Sc. (New York State College for Teachers), North Tonawanda, N. Y.	
Mary Elizabeth Conrad, B.A.	Salem
William Robert Cornthwaite, A.B. (DePauw University)	Cambridge City, Ind.
Edna Eva Davis, B.A. (Syracuse University)	Burnt Hills, N. Y.
Eleanor Mercedes Do Bell, B.A.	Columbus
Ralph Emerson Dunford, B.A.	Amanda
Carl Godfrey Easter, B.A.	Columbus
Florence Leon Eberhard, B.A.	Fostoria
Otto C. France, B.A. (Indiana State Normal School)	Columbus
Carl Maynard Frasure, B.A.	Stoutsville
Eloise Fromme, B.A., B.Sc. in Edu.	Urbana
Charles Goodsell Fulkerson, B.A. (Washburn College)	Toledo
Benjamin Gamzue, B.S. (Massachusetts Agricultural College)	Holyoke, Mass.
Guy Lee Geiger, B.Sc. in Agr.	Pataskala
R. Clark Gilmore, A.B. (Miami University)	Camden
Miles McKindree Graham, A.B. (Ohio University)	Logan
Clifton Wallace Hall, Ph.B. (Denison University)	Cleveland
J. Wesley Hatcher, B.A.	Columbus
Edna Marea Hoffman, B.Sc. in Edu.	Columbus
Olive Mae Hoover, B.Sc. in Edu.	Alliance
Verna Virginia Kennon, B.S. in Edu. (Muskingum College)	Barnesville
Myra Wilhelmina Kuenzel, B.A.	New Bremen
Clarence Oliver Lehman, A.B. (Bluffton College)	Berne, Ind.
Mary Florence McCarthy, B.Sc. in Edu.	Columbus
Eleanor Ward McClain, B.A. (Ohio Wesleyan University)	Columbus
William Collins McCoy, B.A.	Columbus
Herman Leo McCullough, A.B. (Wittenberg College)	Sandusky
Robert Hooper McNeil, A.B. (George Washington University)	Columbus
Faith Melsheimer, B.A., B.Sc. in Edu.	Columbus
Clarence Walter Morris, B.Sc. in App. Opt.	Columbus
Walter Frederick Muhlbach, Ph.B. (University of Chicago)	Delaware
Elmer Talmadge Naylor, B.Sc. in Edu.	Bainbridge

Howard William Newton, A.B. (Hiram College)	Norwalk
Wesley Clark Newton, Jr., A.B. (Marietta College)	Marietta
Harold Joyce Noble, B.A. (Ohio Wesleyan University)	Columbus
Ralph Wilson Ogan, B.A. (Muskingum College)	Cumberland
Flora Eva Olnhausen, B.A., B.Sc. in Edu.	Columbus
Mary Anita Palmer, B.A.	Columbus
Edna Oramay Pate, B.A.	Columbus
Karl Dustin Reyer, B.Sc. in Bus. Adm.	Lafayette, Ind.
Max Manuel Rosen, B.Sc. in Bus. Adm.	Steubenville
Claire Gertrude Sharpe, B.Sc. in Edu.	Columbus
Grace Mae Slater, B.Sc. in Edu.	Columbus
Kenneth Ludwig Smoke, B.A.	Columbus
Sue Snorf, B.S. in Edu. (Miami University)	Verona
Edna Spatz, B.A.	Columbus
Helen Louise Stitt, B.A.	Columbus
Frances Elizabeth Summy, B.A.	Columbus
Fred Leon Teal, B.S. in Edu. (Ohio Northern University)	Canton
Negley King Teeters, A.B. (Oberlin College)	Steubenville
Floyd Johnson Vance, A.B. (Otterbein College)	Westerville
Mary Elizabeth Walker, B.A.	Columbus
Mary Wartars, A.B. (Shorter College)	Rome, Ga.
Alethea Hebron Washington, Ph.B. (University of Chicago)	Wilberforce
Josephine Waters, B.A.	Lakeside
George Willard White, B.S. (Otterbein College)	Westerville
Dortha Edith Williams, A.B. (Indiana State Normal School)	Muncie, Ind.
Margaret Caroline Williams, A.B. (Mount Holyoke College)	Columbus
Elizabeth Florence Yager, B.A., B.Sc. in Edu.	Chillicothe
Sung Ling Yao, B.Sc. in Bus. Adm.	Kweichow, China
Lawrence Howard Yingling, B.A. (Northwestern College)	Old Fort

(Seventy-three candidates)

## MASTER OF SCIENCE

Horton Alger, B.Sc. in Agr.	Mantua
Earle Radcliffe Caley, B.S. (Baldwin-Wallace College)	Cleveland
Oscar Ling Cartwright, B.S. (Allegheny College)	Sharpsville, Pa.
Edward Francis Ferguson, B.E.E.	Columbus
Robert Ceylon Gregg, B.A. (Ohio Wesleyan University)	Tiffin
Benjamin Wyatt McKay, A.B. (Hiram College)	Tyrrell
Hugh Howard Miley, B.A.	Fayette
William Dickson Nicoll, B.S. (Tarkio College)	Tarkio, Mo.
David Charles O'Donnell, A.B. (Miami University)	Lima
Russel Edmund Rebrassier, D.V.M.	Columbus
Roy Elmer Roberts, B.S. in Agr. (Purdue University)	Lafayette, Ind.
Andrew Earl Roper, B.A.	Toledo
Leonard Francis Sheerar, B.Sc. in Cer. Engr. (Alfred College)	Wellsville, N. Y.
George Washington Starr, B.Sc. in Bus. Adm.	Gettysburg
Andrew Z. Stauffer, B.S. (Ohio Northern University), B.Sc. in Agr.	Bluffton
Archie Newton Tissot, B.Sc. in Agr.	Winchester
Edwin Fred Vogel, B.S. (Capital University)	Columbus
Star Henry Windsor, B.Sc. in Agr.	Marietta

(Eighteen candidates)

## MASTER OF SCIENCE IN SOCIAL ADMINISTRATION

Prather James Hauser, A.B. (Wilberforce University)	Springfield
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(One candidate)

## CANDIDATES FOR TWO DEGREES

Homer Blue	Columbus
Bachelor of Science in Education	
Bachelor of Science in Applied Optics	
Henry Amos Carns	Dover
Bachelor of Arts	
Bachelor of Laws	



George Richard Carpenter.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Helene Elizabeth Cherry.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Anna Wonder Eikenhout.....	Grand Rapids, Mich.
Bachelor of Arts (with high distinction)	
Bachelor of Science in Education	
Katharine Elizabeth Gamble.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Louise Harding.....	Columbus
Bachelor of Arts (with distinction)	
Bachelor of Science in Business Administration	
Ruth Virginia Johnson.....	Columbus
Bachelor of Arts (with high distinction)	
Bachelor of Science in Education	
Cornelia Imogene Jones.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Katherine Annette Kauffman.....	Columbus
Bachelor of Arts	
Bachelor of Science in Education	
Leo Eldridge McCoy.....	Sunbury
Bachelor of Arts (with distinction)	
Bachelor of Science in Education	
Raymond Alex MacFadyen.....	Columbus
Bachelor of Arts	
Bachelor of Laws	
Catherine Adele Miles.....	Columbus
Bachelor of Arts (with distinction)	
Bachelor of Science in Education	
Alma Amelia Millonig.....	Dayton
Bachelor of Arts (with high distinction)	
Bachelor of Science in Education	
Albert Edmund Redman.....	Columbus
Bachelor of Arts	
Bachelor of Science in Journalism	
Francis Augustus Riebel.....	Columbus
Bachelor of Science	
Doctor of Medicine	
Ethel Marie Straw.....	Ohio City
Bachelor of Arts	
Bachelor of Science in Education	
Milton Anderson Strawbridge.....	Findlay
Bachelor of Science	
Doctor of Medicine	
Alfred Bell Strehli.....	Columbus
Bachelor of Arts	
Bachelor of Science in Business Administration	
Dean Wakefield Trott.....	Columbus
Bachelor of Arts	
Bachelor of Laws	
Mildred Wagner.....	Shepard
Bachelor of Arts (with high distinction)	
Bachelor of Science in Education	
Edna Christine Natalie Walz.....	Columbus
Bachelor of Arts (with high distinction)	
Bachelor of Science in Education	

Esther Rosetta Zurcher.....	Wilmot
Bachelor of Arts	
Bachelor of Science in Education	
(Twenty-three candidates)	

## COLLEGE OF AGRICULTURE

Dean: ALFRED VIVIAN

## BACHELOR OF SCIENCE IN AGRICULTURE

Chester B. Alspach.....	Canal Winchester
Russell Crowe Atkins.....	Winston-Salem, N. C.
Andrew Harper Bickett.....	Xenia
Joseph Clifford Bixler.....	Navarre
Louie Henry Bohley.....	Medina
James Matthew Cook.....	West Dover
Thomas Arthur Cook.....	Smithfield
Guy Lamar Coppock.....	Salem
Robert Patterson Craven.....	Dayton
Edwin Marshall Cupp.....	Columbus Grove
Charles Perry Dodd.....	Bay Village
Ernest Adrian Drake.....	Malta
John Elmer Drake, Jr.....	Yellow Springs
Clarence Edward Drumheller.....	Windham
John William Ellis Dunbar.....	Cutler
Harold Carl Esper.....	Columbus
Samuel Phillip Frantz.....	Amlin
Chester Jonas George.....	Dayton
Lester John George.....	Dayton
Paul Jones Hanes.....	Arcanum
Wesley Alfred Harper.....	Mendon
Roy Burton Harris.....	Fostoria
Norton Doan Henry, Jr.....	Painesville
Harold Grannis Hodson.....	Pioneer
John Henry Hollenberg.....	Sebring, Fla.
Earl Kerlin Jackson.....	Greenville
Howard Frankford Kohler.....	Poland
Stephen John Langshaw.....	Perry
Houston Melvin Lemasters.....	Ravenna
Lowell Martin Lewis.....	Albany
Julius Harold Lintner.....	Columbus
Howard McClarren.....	Delta
Homer Wakefield McClure.....	Harrison
Carl Laughlin Mack.....	Belle Center
Lewis Briggs Morehead.....	Groveport
Benjamin Franklin Morris.....	Piqua
Sheldon White Neill.....	Venice
Newell S. Oder.....	Chatfield
Walter Pabst.....	Coal Run
Harold Seymour Peters.....	Columbus
Raymond Leslie Pigion.....	Cleveland
Donald Piersol Plymale.....	Kenova, W. Va.
Calvin McNary Pollock.....	St. Clairsville
William Herbert Poly.....	Versailles
Virgel Bryan Redd.....	Carroll
Lloyd Roscoe Roof.....	Dayton
Elmer Miller Rowalt.....	Cincinnati
Harold Day Saxton.....	Rutland
Walter Ernest Schaeffer.....	Wyoming
Morris M. Schlosberg.....	Atlantic City, N. J.
Raymond Edison Shank.....	Dayton
Erval Ainsworth Spafford.....	Rock Creek



Leonard Erwin Swanson.....	New London
Robert Emmet Swihart.....	Harpster
Howard Tom.....	Camp Chase
Charles Francis Tossey.....	Marysville
Isaac Warshay.....	Cleveland
Alan Francis Williams.....	Vaughnsville
Clifford Alexander Wilson.....	Mt. Victory
Willard Henry Wolf.....	Valley City
George Stewart Wolfram.....	Columbus
Harry Darl Wright.....	Forest

(Sixty-two candidates)

## BACHELOR OF SCIENCE IN LANDSCAPE ARCHITECTURE

Lela Erlene Green.....	Cumberland
Ralph Lucas Reaser.....	Columbus

(Two candidates)

## BACHELOR OF SCIENCE IN HOME ECONOMICS

Helen Abbott.....	Medina
Violet Kramer Alspach.....	Canal Winchester
Marjorie Lela Averell.....	Akron
Frances Martha Baker.....	Troy
Helen Harvey Baldwin.....	Toledo
Elda Mae Barnes.....	Shiloh
Anna Mary Barr.....	Amanda
Esther Jane Bishop.....	Amlin
Rhea McKay Bishop.....	Delta
Mary Louise Bone.....	Lafayette, Ind.
Dorothy Louise Briggs.....	Columbus
Elizabeth Ruth Brooks.....	Columbus
Mary Ann Brown.....	Hebron
Kathryn Helen Bryant.....	Kent
Mary Florence Chambers.....	Canal Winchester
Winifred Bess Chrisman.....	Sharon Center
Norah Margaret Clancy.....	Brookline, Mass.
Ruth Pauline Clouse.....	Canton
Frances Coffman.....	Carroll
Josephine Coppock.....	Columbus
Beatrice Elizabeth Cummins.....	Columbus
Elizabeth Deiber.....	Beaver
Charlotte Campbell Ellis.....	Columbus
Esther Erwin.....	Columbus
Grace Althea Essex.....	Cumberland
Lucy Jeanette Folsom.....	Franklin Furnace
Marjorie Eugenia Fouke.....	Fremont
Mildred Ruth Geiger.....	Hebron
Agnes Dorothy Grabiel.....	West Mansfield
Margaret Groschner.....	Toledo
Helen Annalee Hart.....	Williamsfield
Lucille DeEtt Hawkins.....	Canfield
Georgia Gordon Hershey.....	Columbus
Isabelle Mortimore Hitchcock.....	Columbus
Marion Annetta Hoddick.....	Sandusky
Elizabeth Ann Holloway.....	Akron
Pauline Agnes Johnson.....	Columbus
Doris Eleanor Kerr.....	Columbus
Doris McGrew Kissinger.....	Columbus
Faye Margaret Larimer.....	Bremen
Marian Alice Leak.....	Boughtonville
Margaret Allen Lunn.....	Columbus
Helen Larimer McCandlish.....	Lancaster
Margaret Ella Madden.....	Columbus
Ethel Frances Miller.....	Columbus

Frances Miller.....	Columbus
Anita Conant Moser.....	Xenia
Blanche Bell Oyler.....	Cincinnati
Mary Elizabeth Preisendorfer.....	Defiance
Edith Eliza Rabberman.....	Forest
Serena Clifford Rees.....	Cynthiana, Ky.
Dorothy Rose Reinbolt.....	Burgoon
Marguerite Pauline Richner.....	Woodsfield
Hilda Rymer.....	Harrisville, W. Va.
Merion Elizabeth Savage.....	Columbus
Helen Adele Scheffler.....	Zanesville
Agnes Mae Skinner.....	Washington C. H.
Marian Slater.....	Columbus
Rose Stetelman.....	Columbus
Joyce Syler.....	Sugar Creek
Virginia Jones Thomasson.....	Smithfield
Marian Coletta Vincent.....	Garrettsville
Verna Katherine Weaver.....	Marysville
Dorothy Williams.....	Hanover
Ernestine Elizabeth Williams.....	Columbus
Blanche Winifred Wolfe.....	Pleasantville
Mary Marjorie Yost.....	Youngstown

(Sixty-seven candidates)

## COLLEGE OF ARTS, PHILOSOPHY, AND SCIENCE

Dean: WILLIAM EDWARDS HENDERSON

## BACHELOR OF ARTS

Theresa Emma Armstrong.....	Detroit, Mich.
Helen Burlington Arnold.....	Columbus
Frederick Calvin Ault (with high distinction).....	Columbus
Marthalee Beaver.....	Greenfield
Albert Boggs (with high distinction).....	Columbus
Rollo Wyrick Bonnell.....	Cambridge
Peter Hubert Bonner.....	Barberton
William Frank Boukalik.....	Cleveland
Edna Cordelia Bowling.....	Everett
Robert Elmer Boyd.....	Aspinwall, Pa.
Frank Sheldon Bradford.....	Columbus
Richard Irving Brashear.....	Columbus
Jeanette Bresnan.....	Cleveland
Helen Jean Brown (with distinction).....	Columbus
Olin Teeter Brown.....	Ithaca, N. Y.
Dorothea Ruth Buckley.....	Columbus
Richard Stevens Burlington (with high distinction).....	Columbus
John William Camp.....	Cambridge
Helen Mary Cannon.....	Columbus
*Henry Amos Carns.....	Dover
Mayron Alice Carpenter.....	Columbus
*George Richard Carpenter.....	Columbus
Virginia Case.....	Columbus
Arnie Louise Chadwick (with high distinction).....	Columbus
Anna Belle Chalfant (with high distinction).....	Akron
*Helene Elizabeth Cherry.....	Columbus
Samuel Chiccarino.....	Farrell, Pa.
Edmund Stephen Chod.....	Chicago, Ill.
Charles Egolf Clifton.....	Etna
Charles Monroe Coffin (with high distinction).....	Waynesfield
Mary Collicott (with distinction).....	Columbus

\*Two Degrees



Rollin Francis Conaway.....	Crooksville
Paden Hott Coontz.....	Toledo
Emmitt Littleton Crist.....	Circleville
Paul Arthur Culbert.....	Fremont
Mary Adra Cull.....	Columbus
Harriet Laverne Davis.....	Alvordton
Russell Edmund Davis, B.Sc. (Wilmington College).....	Leesburg
Naomi Esther Decker, B.Sc. in Edu.....	Columbus
Ruth Harriett Doncaster.....	Columbus
Joseph Marshall Downs.....	Columbus
*Anna Wonder Eikenhout (with high distinction).....	Grand Rapids, Mich.
Dorothy Ida Failer.....	Salem
Robert Hull Farber.....	Columbus
Margaret Eliza Finckel.....	Columbus
Nellis Hartley Fisher.....	Butler, Pa.
Robert Clarence Fowler.....	Columbus
Dorothy Elizabeth France.....	Columbus
Elizabeth Bancroft Fravel.....	Columbus
Dorothy Standish Frohock.....	Columbus
Elsie May Fuerniss.....	Columbus
*Katharine Elizabeth Gamble.....	Columbus
Ruth Gebhart.....	Dayton
Hilda Loretta George.....	Youngstown
Marjorie Russell Gibson (with high distinction).....	Holley, N. Y.
Charles Emory Glander.....	West Alexandria
John Paul Goetz.....	Akron
Eric Theodore Griebing.....	Lakewood
Paul Alfred Griffith (with high distinction).....	Columbus
Reinold Haldi.....	Cleveland
*Louise Harding (with distinction).....	Columbus
Hulda Elizabeth Hauenstein.....	Columbus
George B. Hay.....	Akron
Dorothy Virginia Hayden.....	Columbus
Frank William Heeter.....	Cadiz
Mera Lin Helin.....	Columbus
Ward James Herbert (with distinction).....	Columbus
Catharine Luella Hicks (with distinction).....	Columbus
Margaret Gertrude Hobstetter (with distinction).....	Columbus
Eldon Ferdinand Hoerner.....	Dayton
Robert Hawes Hoffman (with distinction).....	Arcanum
Wilhelmina Louise Holtzman.....	Columbus
Charlotte Olivia Hoop.....	Newark
Robert Edgar Hughson, Jr.....	Bluffton
Helen Alvina Hunscher (with high distinction).....	Gates Mill
Vinson Hunter.....	Columbus
Henry Pettker Huston.....	Mansfield
Clifford Lester James (with high distinction).....	Lewisburg
*Ruth Virginia Johnson (with high distinction).....	Columbus
Dorothy May Johnston.....	Richmond, Va.
*Cornelia Imogene Jones.....	Columbus
Rachael Anne Jones.....	Columbus
Lawrence Edwin Judy (with distinction).....	Bridgeport
*Katherine Annette Kauffman.....	Columbus
Grace Florence Kelley.....	Columbus
Caroline Conwell Kennedy.....	Columbus
Arthur Glenn Kent.....	Columbus
Zora Ewens Frankel Kettell.....	Towson, Md.
Carter Coslet Kissell (with distinction).....	West Unity
Jean MacPherson Kitchen.....	Erie, Pa.
George Corinth Lacy.....	Columbus
Gertrude Virginia Lance.....	Ashtabula

Lucile Anne Lane.....	Plain City
Lola Louise Larason.....	Columbus
Rosa Oberia Lattimer.....	Columbus
Ted C. Lewis.....	Rushville
Ethel Veres Lichtblau.....	Cleveland
Daniel Poindexter Lincoln.....	Columbus
John Stephen Loder.....	Columbus
Calvin Armstrong McCoy.....	Seville
*Leo Eldridge McCoy (with distinction).....	Sunbury
*Raymond Alex MacFadyen.....	Columbus
David Magid.....	Cleveland
Margaret Louise Marsh.....	Columbus
Elizabeth Lincoln Marshall (with distinction).....	Columbus
Donald Holcomb Metcalf.....	Columbus
Margaret Hinkel Meyer (with distinction).....	Columbus
Robert Ross Michener.....	Bridgeport
*Catherine Adele Miles (with distinction).....	Columbus
Foster Travis Miller.....	Bedford
Nancy Eleanor Milligan.....	Springfield
*Alma Amelia Millonig (with high distinction).....	Dayton
John Franklin Miner.....	Columbus
Peter Michael Mizenko.....	Cleveland
Jessica Idanthea Moffat (with high distinction).....	Columbus
Laura Estelle Nash.....	Berlin Heights
George Philip Naum.....	Columbus
Carl Joseph Ochs.....	Lancaster
Helen Frances Okerbloom.....	Columbus
Naomi Organ, B.A. (Wilmington College).....	Wilmington
Mildred Fransonia Orwig.....	Columbus
Hercule Paolino.....	Ashtabula
Beulah Amy Parrot.....	Columbus
George Elliott Peters.....	Ashville
Robert Clair Porter.....	Hillsboro
Helen Rathburn.....	Rutland
*Albert Edmund Redman.....	Columbus
Marcella Augusta Rehl.....	Columbus
Dorothy Ellen Reid (with high distinction).....	Gallion
Irville Spencer Rian.....	Newark
Cleopatra Rutter Riegle.....	Columbus
James Glenn Ross.....	Sandusky
Florence Emma Rozelle.....	Solon
Cordelia Closse Ruetenik.....	Cleveland
Louise Salisbury (with high distinction).....	Russellville
Merritt Edward Schlafman.....	Dayton
Walter Paul Schuette.....	Columbus
Margaret Lee Calhoun Seely.....	Columbus
Albert Ephriam Segal (with high distinction).....	Chillicothe
Herman William Seikel.....	Dover
Ruth Laura Sells.....	Hilliards
Frank Merrick Semans.....	Columbus
Helen Reybeurne Sidener.....	Lima
Florence Katherine Simmons.....	Columbus
Gwendolen Singleton.....	Columbus
Mary Isabelle Skeen.....	Columbus
Ralph A. Skilken (with distinction).....	Dayton
Charles Anderson Slade.....	Arcanum
Deane Hawthorne Spaulding.....	Bedford
Margaret Speaks.....	Columbus
Mary Elizabeth Sprague.....	Columbus
David McClure Spriggs.....	Bellaire
Anna Becken Stein.....	Toledo



Hylda Laurel Stern.....	Cleveland
Herbert Ralph Stockwell.....	Mechanicsburg
Roy Jacob Stone (with distinction).....	Columbus
*Ethel Marie Straw.....	Ohio City
*Alfred Bell Strehli.....	Columbus
Esther Elizabeth Stroedter (with high distinction).....	Columbus
Huldah Anna Stroedter.....	Columbus
Irma Dacie Strong.....	Sunbury
Donald Chapman Strother (with distinction).....	Beaver, Pa.
Karl Otto Suessenguth.....	Cadiz
George Ching Sun.....	Peking, China
Marion Swickard.....	Columbus
Mary Taylor.....	Toledo
Charles Van Pelt Thomas.....	Bridgeport
Margaret Ellen Thomas (with distinction).....	Jackson
Hugh Cochran Thompson (with high distinction).....	* Zanesville
Wilbur Metellus Tidd.....	Alger
Eleanor Augusta Torbert.....	Columbus
*Dean Wakefield Trott.....	Columbus
Ruth Louise Trott.....	Columbus
Paul Wood Vale (with distinction).....	Columbus
*Mildred Wagner (with high distinction).....	Columbus
*Edna Christine Natalie Walz (with high distinction).....	Columbus
Shu-Ling Wang.....	Chekiang, China
Stuart Mills Watson.....	Columbus
Alex Stevenson Watt.....	Circleville
Florence Helen Welch.....	Delaware
Mary Elizabeth Whiteford (with high distinction).....	New Philadelphia
Edwin Lloyd Wiegman.....	Chatfield
Mary Elizabeth Winters.....	Columbus
William Foster Wittman (with distinction).....	Glade
James Mortimer York.....	Good Hope
Helen Gertrude Zahn.....	Columbus
*Esther Rosetta Zurcher.....	Wilmot

(One hundred and eighty-seven candidates)

## BACHELOR OF SCIENCE

Russell Wilson Gardner.....	Marengo
Donald Fayette Gowe.....	Columbus
Harold Ellsworth Hathhorn.....	Bellaire
John Elmer Hoberg.....	Brink Haven
Myron Hopkins Powelson.....	Etna
Edmond Girard Puterbaugh.....	Arcanum
*Francis Augustus Riebel.....	Columbus
*Milton Anderson Strawbridge.....	Findlay
Robert Milton Zollinger.....	Millersport

(Nine candidates)

\*Two Degrees

## COLLEGE OF COMMERCE AND JOURNALISM

Dean: JAMES E. HAGERTY

## BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

David Griffith Abram.....	Columbus
Hector Macdonald Aitken.....	Camp Chase
Duane Orr Alexander.....	Ravenna
Carolyn Bamberger.....	Indianapolis, Ind.
Heber Leroy Bartlett.....	London
Paul Canfield Barton.....	Lakewood
Harold Riegel Bixler.....	Kenton
Robert Aten Blair.....	Hamilton
Joseph Louis Bopeley.....	Columbus

Harold Stanley Bown.....	Richwood
Fernand Paul Brasseur.....	Lancaster
Sunny Christian Brenneman.....	Xenia
Earl Francis Brown.....	Ostrander
Ralph Kay Brown.....	Marion
George Dana Cameron.....	Cleveland
John Strickler Cole.....	Columbus
Emmett Lawrence Corwin.....	Columbus
Raymond William Dachsteiner.....	West Unity
William Paul Der Mott.....	Columbus
Alfred Milton Devol.....	Zanesville
Helen Jane Dew.....	Westerville
Elvin Frank Donaldson.....	Columbus
Paul Burton Duffield.....	Akron
Don Harold Ebright.....	Columbus
Harrold Cross Eekert.....	Columbus
Herman Erlen.....	Columbus
Jacob Erlen.....	Columbus
Allen Jacob Esper.....	Columbus
William Donald Fesler.....	Youngstown
Anthony Raymond Fiorette.....	Cleveland
Otis Frederick Forsyth.....	Noblesville, Ind.
Albert Hurt Freytag.....	Portsmouth
David Arthur Friedman.....	Toledo
Jennie Gordon.....	Lorain
William Norval Griffith, Jr.....	Bluffton
Edward Samuel Griffiths.....	Columbus
Robert Hamilton Haines.....	Dayton
Kathryn Florence Halladay.....	Huron
Scott Elwood Hambleton.....	Columbus
*Louise Harding.....	Columbus
Seth William Harter.....	Columbus
Sarita Heenan.....	Columbus
Forest McKinley Henderson.....	McConnelsville
John Wesley Hudson.....	Cincinnati
Arthur Ronald Hull.....	Columbus
Elbert George Jones.....	New Madison
Vernon Douglas Kleinsmith.....	Lakewood
Roy DeWitt Leis.....	New Lebanon
Carnot Henry Leupold.....	Zanesville
Harry McDowell Lewis.....	Columbus
David Shinn Lowe.....	Shinnston, W. Va.
Merald Franklin Lue.....	Patterson
George Joseph Meehan.....	Cleveland
William Wilson Michel.....	Columbus
Louis Samuel Moll, Jr.....	Chillicothe
Theodore Roosevelt Moore.....	Marion
William Cecil Mumma.....	Springfield
Frank Raymond Musrush.....	Lakewood
Fern Inez Nation.....	Chebanse, Ill.
Harold Lee North.....	Wheatland, Wyo.
Stephen Dwight Parker.....	Springfield, Mass.
Cletus Francis Paumier.....	Salem
Samuel Wilson Pearce.....	Steubenville
William Herbert Phillips.....	Lakewood
Henry Isaac Raymond.....	Fremont
Jack Clarence Reese.....	Glouster
Jack Segall Resler.....	Columbus
Harold Allen Ritter.....	Akron
Brooks Edward Rogerson.....	Columbus
Roland Deem Ross.....	Columbus



Milton Ivan Shapero.....	Cleveland
Melville James Shaw.....	Wapakoneta
Carl Frederick Shonting.....	Lancaster
Ralph Marion Siniff.....	Columbus
Laurence Nelson Snyder.....	Canton
Everett Van Spaulding.....	Delaware
Carl Lloyd Spicer.....	New Straitsville
John Jay Miller Spiker.....	Scio
Arnold Joseph Stang.....	Sandusky
Charles Edgar Stinson.....	Atlanta
Walter Eugene Stockton.....	Columbus
Charles Scott Storck.....	Portsmouth
*Alfred Bell Strehli.....	Columbus
Anton Edward Strohm.....	Euclid
Charles Norris Sutton.....	Attica
Dorethea Jeanne Tinstman.....	Wadsworth
George Devilloe Tuttle.....	Austinburg
Chester Curtis Vaughan.....	Verona
Frederick Lee Von Neiderhausern.....	West Lafayette
Lawrence Rudolph Walther.....	Canton
Rosalia Mary Weaver.....	Defiance
Stewart Weber.....	Zanesville
Mildred Carolyn Weil.....	Toledo
Harley Louis Werth.....	West Carrollton
Walter Levere Wickard.....	McKeesport, Pa.
Ralph Byron Williams.....	Cleveland
Earl Craven Willson.....	East Cleveland
Herbert Willit.....	Hicksville
John Hayes Winters.....	Columbus
Virginia Woodworth.....	Youngstown
Harry Lester Wylie.....	Columbus

(One hundred and one candidates)

## BACHELOR OF SCIENCE IN JOURNALISM

Eric John Bender.....	Cleveland
Leo Aloysius Dunkel.....	Columbus
Herbert Gray Fickes.....	Steubenville
Alfred Tennyson Greenbank.....	Wooster
Frances Blake Huffman.....	Columbus
Albert Hopkins Kelly.....	East Cleveland
Rose Emma Miller.....	Toledo
Frank Alphas Petrie.....	Piqua
*Albert Edmund Redman.....	Columbus
Thomas Harold Revere.....	Columbus
Bernadine Rose Soisson.....	Norwalk
Asa Lee Spencer.....	Cortland
Ruth Eleanor Turner.....	Columbus
Mildred Frankel Weiss.....	Columbus
Melvin Kerr Whiteleather.....	Damascus
Henry Everett Worley, Jr.....	Columbus

(Sixteen candidates)

## BACHELOR OF SCIENCE IN SOCIAL ADMINISTRATION

Treva Mae Allen.....	Ravenna
Myrtle Marie Cook.....	Mt. Ranier, Md.
Lillian Isabel Freund.....	Portsmouth
Mamie Sue Greer.....	Columbus
Rowena Louise Krob.....	Columbus
Harriet Alice Lakin.....	Columbus
Martha Norinne Lathouse.....	Columbus
Portia Belle Mengert.....	Columbus

\*Two Degrees

Ruth Elizabeth Patterson.....	Columbus
Evelyn Grace Richmond.....	Dayton
Goldia Mary Spafford.....	Rock Creek
Joe Reynolds Wisely, B.C.S. (Findlay College).....	Findlay
(Twelve candidates)	

### COLLEGE OF DENTISTRY

Dean: HARRY M. SEMANS

#### DOCTOR OF DENTAL SURGERY

Lewis Romer Basch.....	Columbus
Joseph Newland Basom.....	Athens
Donald Elbridge Bowers.....	Norwalk
Edward Samuel Cox.....	Steubenville
William Evans.....	Maynard
John Thomas Fulton.....	Columbus
Harry LeRoy Hanna.....	Canton
Clayton Chan Haulk.....	Canton
Le Roy Johnson.....	Columbus
Walter Barnhart Kline.....	Bellevue
Joseph Frederick Lyden.....	Youngstown
Ralph Millard McCoid.....	Bellefontaine
William James Madison.....	Columbus
Quinn Frank Montgomery, A.B. (Fisk University).....	Cleveland
Richard Peter Muth.....	Dayton
Alfred Stattelmann.....	Dayton
John Edwin Sullivan.....	Fremont
Victor Leroy Thompson.....	Athens
Maynard Barnhart Thorpe.....	Sabina
George Elmer Wilson.....	Sharon, Pa.
Robert Chancy Wilson.....	Columbus
Reginald James Woodward.....	Columbus

(Twenty-two candidates)

### COLLEGE OF EDUCATION

Dean: GEORGE FREDERICK ARPS

#### BACHELOR OF SCIENCE IN EDUCATION

Dorothy Frances Abernathy.....	Columbus
Una Margarete Ackley.....	Granville
Ruth Clark Allen, B.A.....	Columbus
Juliet Mary Alspach.....	Columbus
Lucy Mary Amborski.....	Gaylord, Mich.
Hester Virginia Amlin.....	Columbus
Rachael Ada Appleman.....	Columbus
Dorothy Le Baron Arbuckle.....	Columbus
Ruth Irene Avey.....	Lancaster
Amanda Georgia Baer.....	Cleveland
Katherine Maxine Baker.....	Columbus
Leta Fay Barrick.....	Columbus
Gladys Coble Bartlett.....	Columbus
Ruth Carmen Beall.....	Columbus
Earl Edson Beard.....	Portage
Gertrude Elizabeth Beery.....	Lancaster
Katherine Lucile Bennett.....	Columbus
Eva Margrete Berman.....	Columbus
Miriam Harriet Bernstein.....	Gary, Ind.
Eleanor Olive Black, B.A.....	Columbus
Ruth Madeline Blenkner.....	Columbus



*Homer Blue.....	Columbus
Bernice Estelle Blumenstiel.....	Sebring
Elizabeth Harriet Borger.....	Columbus
Anna Amelia Bower.....	Columbus
Irma Louise Braun, B.A.....	Columbus
Martha Brennan.....	Columbus
Helen Irene Brink.....	Columbus
Stella Marie Brooks.....	Columbus
Helen Marguerite Butterworth.....	Columbus
Hallam Dean Campbell.....	Columbus
*George Richard Carpenter.....	Columbus
Hsuan-Shan Chen.....	Chekiang, China
*Helene Elizabeth Cherry.....	Columbus
Emit Guy Clark.....	Lancaster
Sarah Bell Colfesh.....	Columbus
May Genevieve Collins.....	Columbus
Mary Louise Cornell.....	Sunbury
Dorothy Margaret Cotter.....	Columbus
Bernice Grace Croll.....	Elmore
Loral Beatrice Culbert.....	Portland, Ind.
Fidelia Ann Cummings.....	Painesville
Marguerite Fullerton Danner.....	Columbus
William Dwight Darling.....	Warsaw
Lucy Dennison.....	Youngstown
Dorothy Forrest Derry.....	Columbus
Dorothy Eloise Dougherty.....	Waverly
Ellen Dumm.....	Kingston
Olive Louise Edwards.....	Lancaster
*Anna Wonder Eikenhout.....	Grand Rapids, Mich.
Evelyn Ruth Ennes.....	Sandusky
Carolyn Faris.....	Washington, D. C.
Mary Lucile Flanagan.....	Cedarville
Florence Elizabeth Foster.....	Columbus
Esther Lucille Frazier.....	Frazeesburg
Anna Corinne Frederick.....	Coshocton
Grace Loella Fritz.....	Zanesville
Jessie Lenora Fry.....	Columbus
Phoebe Marguerite Fulton.....	Columbus
Louesba Mitchell Galbreath.....	Columbus
*Katharine Elizabeth Gamble.....	Columbus
Louise Gatewood.....	Crown City
Bonnie Lee Gehres.....	Waverly
Helen Elizabeth Gilbert.....	Columbus
Alice Hortense Gillespie.....	Columbus
Edna Frances Gordon.....	Columbus
Dorothy Ethel Graham.....	Columbus
Jefferson Eugene Grigsby, A.B. (Biddle University).....	Lynchburg, Va.
Cleo Evelyn Grover.....	Ashtabula
Dora Olive Grube.....	Shepard
Helen Armens Harpster.....	Toledo
Katherine Margaret Harrop.....	Galloway
Helen Lavonne Haupt.....	Port Washington
Helen Elizabeth Hawkins, B.A.....	Painesville
Ruth Marie Helter.....	Mansfield
Martha Jane High.....	Columbus
Anita Ione Hoffman.....	Lakewood
Ruth Leona Huddle.....	Columbus
Earl Dickinson Irick.....	Rushsylvania
Alice Carolyn Jennings.....	Columbus
Harold Nels Johnson.....	Columbus
Martha Ann Johnson.....	Cambridge

*Ruth Virginia Johnson.....	Columbus
Faith Adelaide Johnston.....	Columbus
*Cornelia Imogene Jones.....	Columbus
Leland Thomas Jones.....	Radnor
Mary Rachel Jones.....	Columbus
Mildred Jones.....	Cleveland
Edith May Judd.....	Columbus
*Katherine Annette Kauffman.....	Columbus
Lois Rebecca Keller.....	Bucyrus
Marguerite Kellerman.....	Columbus
Eulalia Marie Kemp.....	Columbus
Freda Mae Kennard.....	Columbus
Selma Ruth Kessler.....	Toledo
Ruth Loine Killworth.....	Columbus
Alice Rosina Kirchner.....	Youngstown
Nelle Margueritte Kloepfer.....	Columbus
Charlotte Isabelle Knauss.....	Newark
Edith Elizabeth Lakin.....	Columbus
Margaret Ellen Lanpher.....	Leontonia
Desdemona Latham.....	Pleasant Hill
Margaret Naomi Lee.....	Columbus
Lueta Charline Lesser.....	Columbus
Dorothy Elizabeth Longshore.....	Johnstown
Ethelyne Lee McBee.....	Columbus
*Leo Eldridge McCoy.....	Sunbury
Harold Lorin McMillan.....	Marengo
Russell Harmon Martin.....	Columbus
Sedalia Gladys Mayer.....	Sharon, Pa.
Josephine Metcalfe.....	Lyndon
*Catherine Adele Miles.....	Columbus
*Alma Amelia Millonig.....	Dayton
Ruth Elizabeth Monesmith.....	Columbus
Mary West Morgan.....	Westerville
Georgia Elizabeth Moss.....	Stanford, Ky.
Charles Mortimer Mulholland.....	Toledo
Lillian May Nesser.....	Reynoldsburg
Mary Elizabeth Newlun.....	Columbus
Gertrude Ida Nothstine.....	Circleville
Dorothy Rebecca O'Neil.....	Washington, D. C.
William Daniel Overman.....	Columbus
Hilda Marie Owens.....	Martins Ferry
Olive Arlyn Pearson.....	West Milton
Florence Amelia Powell.....	Fresno
Mary Lucile Rapp.....	Columbus
Lucile Marie Renz.....	Medina
Florence Amelia Rice.....	Columbus
Velma Lee Ridenour.....	Westerville
Grace Velma Rinehart.....	Rawson
Sevellon Channell Rockwell, B.A. (Mt. Vernon College).....	Mt. Vernon
Hazel Isabel Ross.....	Columbus
Ruth Elizabeth Ross.....	Wellington
Freda Ida Schlose.....	Dayton
Helen Schrider.....	Bryan
Theodore Bruning Sherman.....	Columbus
Elizabeth Constance Sims.....	Columbus
Catherine Agnes Small.....	Youngstown
Elizabeth Maybelle Smith.....	Columbus
Marjorie Grace Smith.....	Bucyrus
Phyllis Eugenia Smith, B.A.....	Columbus
Clare Berkley Snodgrass.....	Barberton
Hazel Anne Snyder.....	Bellaire



Hazel Dorothy Stelzer.....	Columbus
Helen Dorothy Stephens.....	Columbus
Izora Finch Stewart.....	Columbus
Katherine Irene Stewart.....	Columbus
Alma Eunice Stockton.....	Akron
*Ethel Marie Straw.....	Ohio City
Hazel Strayer.....	Payne
Frances Foss Taylor.....	Columbus
Louis LeGrand Taylor.....	Columbus
Mildred Eleanore Taylor.....	Columbus
Ruth Elizabeth Taylor.....	Columbus
Lorena Templin.....	Blanchester
Lenore Laura Tharp.....	Columbus
Gertrude Elizabeth Thomas.....	Columbus
Ida Anna Thomas.....	Columbus
Beatrice Thompson.....	Columbus
Dorice Tidd.....	Lancaster
Margaret Elizabeth Tinsley.....	Columbus
Ora Benjamin Tracht.....	Galion
Edith Sarah Vance.....	Columbus
*Mildred Wagner.....	Columbus
Grace Elizabeth Waite.....	Columbus
Odell Wallace.....	Columbus
Mercedes Van Dyke Walley.....	Columbus
*Edna Christine Natalie Walz.....	Columbus
Anna Elizabeth Weakley.....	Sugar Grove
Kathryn Julia Webb.....	Toledo
Mildred Ozilla Wertman.....	Stoutsville
Orvel Clark West.....	Cynthiana
Marjorie Eloise Weston.....	Columbus
Anne Elizabeth Wiant.....	Marietta
Austin Birdine Wilder.....	Jamestown, Ala.
Gladys Mohler Williams.....	Columbus
Pearle Elizabeth Williams.....	Marysville
Vestal Madeline Williams.....	Columbus
Margaret Louise Winckelmann.....	Columbus
Glaga Cecelia Wood.....	Cove
Marianne Elizabeth Woodcock.....	Columbus
Dorothy Elizabeth Young.....	Columbus
Alice Christina Zimmer.....	Toledo
Reva Corine Zipperlen.....	Columbus
Gertrude Ohlemacher Zorn.....	Columbus
*Esther Rosetta Zurcher.....	Wilmot

(One hundred and eighty-six candidates)

## COLLEGE OF ENGINEERING

Dean: EMBURY A. HITCHCOCK

## BACHELOR OF ARCHITECTURE

Doyt Harold Early.....	Van Wert
Roscoe Maynard Gortner.....	Amanda
John Wallace Green.....	Thompson
James Arthur Kaltenbrun.....	Columbus
Winters Sampson.....	Columbus
Harold Sylvester Sands.....	Columbus
Robert Verne Wade.....	Martins Ferry
Clement Mortimer Williams.....	Elmore

(Eight candidates)

\*Two Degrees

## BACHELOR OF ARCHITECTURAL ENGINEERING

Otis D. Coston.....	Bessemer, Ala.
Clifford Elbridge Jones.....	Bucyrus
Donald Fee McMurchy.....	New Richmond
Robert Henry Morgan.....	Middletown
Horace Boyce Rose.....	New Berlin
John Frank Small.....	Cleveland
Roy Emmor Vickers.....	Columbus
Ora Elden Wells.....	Tippecanoe City

(Eight candidates)

## BACHELOR OF CERAMIC ENGINEERING

Thomas Moore Arnold.....	Quaker City
John Atwood Austin.....	Ft. Sam Houston, Tex.
Edward Burkhalter.....	Columbus
Robert Edwards Gould.....	Cleveland
George Morrill Grady.....	St. Louis, Mo.
William Eugene Senn.....	Sandusky
Harold Ellis Simpson.....	Columbus
Francis Oliver Stull, B.E.M.....	Fostoria
Frank Charles Westendick.....	Columbus

(Nine candidates)

## BACHELOR OF CHEMICAL ENGINEERING

Burton Benjamin Annis.....	Columbus
Curtis B. Balding.....	Malta
Richard Hartwell Bancroft.....	Springfield
Nathan Thomas Beynon.....	Columbus
John Lavelly Bowers.....	Zanesville
Mathew Michael Braidech.....	Cleveland
Alfred Martin Eyerman.....	Grove City
Arthur Edgar Juve.....	Ravenna
Robert Orin Klotz.....	Springfield
Armand McClintock McCollister.....	Shepard
Frederick Haviland MacLaren.....	Columbus
Merritt Taylor Metz.....	Toledo
Paul Martin Mowen.....	Toledo
Ralph James Paddock.....	Cheboygan, Mich.
John Clarence Pew.....	Cleveland
Robert William Rothrock.....	Washington C. H.
Chennan Shen.....	Shanghai, China
Robert John Sutton.....	Wooster
Owen Albert Thompson.....	Toledo
Harold Millard Trimble.....	Wauseon
Nelson Clegg Turner.....	Portsmouth
Kevork Sarkis Tzindzalian.....	Columbus
William Frederick Underwood.....	Mt. Victory
Adolph Valley.....	Cleveland
Herman Ernst Wening.....	Dayton

(Twenty-five candidates)

## BACHELOR OF CIVIL ENGINEERING

Carl Edgar Allen.....	Columbus
Willis Partman Ansley.....	Bellefontaine
John William Dorwell Bebout.....	Logan
Paul Joseph Bodey.....	Tiffin
Paul Henry Boldt.....	Canton
Henry Armstrong Brevoort.....	Columbus
Stewart Burdeaux Brown.....	Toledo
Forrest Eugene Byrns.....	Columbus
Owen Edward Clark.....	Toledo
John William Currie.....	Cleveland
Francis Houser Davidson.....	Marion
Carleton Burnett Dittenhaver.....	Ashtabula



Clifford Alton Fites.....	Killbuck
Charles Gustavus Franklin.....	Cleuaga, Colombia, S. A.
Lawrence Berry Gamble.....	Hamilton
Hobart McKinley Gray.....	Columbus
Joseph Roger Hayden.....	Columbus
Paul Mardaunt Holmes.....	Shelby
Charles Longson Lockett.....	Springfield
Charles Hosmer Longwell.....	Toledo
Leon Bravo Millan.....	Tayug, Pangasinan, P. I.
George Henry Miner.....	Addison, N. Y.
Floyd Levan Reed.....	Paulding
Albert Ward Ross, Jr.....	Columbus
Orville Henry Seeger.....	Dayton
Raymond Sperr.....	Houghton, Mich.
Benjamin Clifford Stuck.....	Dayton
Edmund Dickey Watts.....	Columbus
Charles Henry Wicks.....	Cleveland
Theodore Claude Wilson.....	Columbus
Charles Herschel Woodruff.....	Columbus
Arthur George Wyatt.....	Prospect

(Thirty-two candidates)

## BACHELOR OF ELECTRICAL ENGINEERING

Henry August Becker.....	Columbus
Cecil Shisler Bidlack.....	Columbus
Frank Lucian Bisel.....	Columbus
William Henry Cochran.....	Columbus
Thomas Gillum Crabtree.....	Portsmouth
Daryl Rowland DeRoche.....	Columbus
Edward William Dougherty.....	Woodsfield
Arthur Emanuel Flink.....	Girard
Victor Edmund Gauthier.....	Toledo
Clair Eugene Gaylord.....	North Collins, N. Y.
John Raymond Gebhart.....	Ashland
Howard Lewis Glenn.....	Columbus
Clyde Miller Griffin.....	Ironton
Lloyd Marvin Grow.....	Toledo
Ralph Gordon Hall.....	Columbus
Jack Nelson Heed.....	Columbus
Arthur Willis Hershey.....	Columbus
Ralph Harman Hiester.....	Dayton
Robert Charles Higgy.....	Columbus
Gerald L. Hoddy.....	Corning
Joseph Alex Horvath.....	Lorain
Frederick Vinton Hunt, B.A.....	Barnesville
Harold Freeman Kellogg.....	Ashland
Maurice Sylvester Kirwen.....	Helena
Lewis Ray Klopfer.....	Piqua
Irving Llewellyn Lindow.....	Toledo
Thomas Addison McCann, III.....	Dayton
James Carleton McCurley.....	Cortland
Robert Emmett Madden.....	Columbus
George Raymond Miller.....	Columbus
Ward Russell Miller.....	Tippecanoe City
Isaac Hollis Parry.....	Jackson
Eugene Pearson.....	Toledo
Carl Albert Schaefer, Jr.....	Springfield
Harold Karr Sellick.....	Toledo
Reynolds Eugene Smith.....	Ravenna
Glenn Alta Spohn.....	Collins
Jennings Neil Stanbery.....	Crooksville
John Smith Stevenson.....	Columbus
John Wayne Thomas.....	Toledo

## THE OHIO STATE UNIVERSITY

Charles St. Clair Thompson.....	Lore City
Raymond Edward Utter.....	Georgetown

(Forty-two candidates)

## BACHELOR OF MECHANICAL ENGINEERING

George Eldon Armington.....	Wickliffe
Marshal William Baker.....	Brookville
Ora Walter Bard.....	Bryan
Orlando Keith Barnes.....	Akron
Alfred David Benson.....	Lorain
Harry Madison Blank.....	Harrod
Harry Elmer Bonner.....	Galena
Homer Newton Booker.....	Greenville
Luis Alberto Borruat.....	Columbus
Maurice David Covert.....	Ashtabula
Robert Russell Gannon.....	Irwin
Max O'Neil Griffith.....	St. Albans, W. Va.
Willard Virgil Grove.....	Clinton
Noel Frederick Christian Haberkost.....	Monroe Falls
Martin Hamm.....	Chillicothe
Samuel Abraham Harris.....	Columbus
Howard William Harrison.....	Columbus
Victor Hugo Hasselquist.....	Canton
Christian Andrew Henes.....	Hamilton
William Marion Holaday.....	Wilmington
Marshall Houghn.....	Columbus
Frederick Alvan Huhn.....	Columbus
Clark Magly Humphreys.....	Kenton
Robert Harold Koehler.....	Cleveland
Kermit James Leach.....	Columbus
Neil Boyer Miller.....	Canal Winchester
Loren Austin Murphy.....	Columbus
Roy Irvin Plummer.....	Columbus
Arthur Leroy Rybolt.....	Ashland
Wallace Harland Seckel.....	Galion
Vaughn Bernard Thompson.....	Kenton
Edgar Lawrence White.....	Detroit, Mich.
Foster Jason Young.....	Gillespieville

(Thirty-three candidates)

## BACHELOR OF METALLURGICAL ENGINEERING

Starling Portz Bahmer.....	New Philadelphia
Russell C. Beam.....	Bucyrus
Richard Walbridge Parsons.....	Mansfield
Thayer Haller Schwartzkopf.....	Bucyrus

(Four candidates)

## BACHELOR OF ENGINEERING IN MINING

James Roy Bartlett.....	Columbus
Arnold Evert Condon.....	Brinkhaven
Jesse Raymond Glaeser.....	Youngstown
Nelson Monroe Jenkins.....	Martins Ferry
Joseph Carl Perry.....	Martins Ferry
Karl Reese Thompson.....	Columbus

(Six candidates)

## BACHELOR OF ENGINEERING PHYSICS

Louis Mace Heil.....	Columbus
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(One candidate)

## BACHELOR OF SCIENCE IN APPLIED OPTICS

*Homer Blue.....	Columbus
William Leroy Burris.....	Columbus

\*Two Degrees



John Vincent Conlon.....	Columbus
John Lowell Crawford.....	Galion
Marion Alice Gibson.....	Columbus
Richard Malcolm Hall.....	Cleveland
Harry Joseph Kramer.....	Springfield
Charles Edwin Padoll.....	Erie, Pa.
Leroy Earl Puetz.....	Lima
Wilbur Burnley Stephens.....	Columbus
Alfred Henry Wittlig, B.A. (Marietta College).....	Marietta

(Eleven candidates)

## COLLEGE OF LAW

Dean: JOHN JAY ADAMS

## JURIS DOCTOR

Sidney DeLamar Jackson, Jr., B.A.....	Youngstown
John George Ketterer, B.A.....	Woodsfield
Ralph Henry Klapp, B.A. (Wittenberg College).....	St. Paris
Horace Dunn Riegler, B.A. (Ohio Wesleyan University).....	Bowling Green
Henry William Seney, II, A.B. (Cornell University).....	Toledo

(Five candidates)

## BACHELOR OF LAWS

Herman Louis Arenson.....	Akron
Leslie Jacobs Arnold, B.A.....	Columbus
William Wayne Badger, B.Sc. in Bus. Adm.....	Millersburg
Joseph Haradon Beatty, B.A.....	Columbus
Scott Alexander Belden.....	Akron
Samuel Luccock Black, Jr.....	Columbus
Howard Roger Butler.....	Greenfield
*Henry Amos Carns.....	Dover
Francesco Cipriano.....	Piqua
Arthur Raymond Cline, B.A.....	Fresno
Merrill Cranston Cross.....	Waterford
Edward John Davis, B.A.....	Cleveland
Harlan Oliver Davis, B.A.....	Cleveland
Robert Joseph Davis.....	Columbus
Thomas Edward Davis.....	Warren
Lawrence Edmund Duffey.....	Toledo
Walter Cecil John Dunigan.....	Parkersburg, W. Va.
Elmo Martin Estill, B.Sc. in Bus. Adm.....	Millersburg
James Mitchell Evans.....	Youngstown
Harry Clifford Fenstermaker, B.A.....	Warren
Byron Edward Ford, B.A.....	Columbus
Morris Morrison Garfinkel.....	Toledo
Charles Audley Gray.....	Cayahoga Falls
Noel Lewman Greenlee.....	Dayton
John Grant Hanlin.....	Fort Recovery
Albert Edward Irvine Harter.....	Columbus
Marvin Henry Helter, B.A. (Ohio Wesleyan University).....	Mansfield
James Frederick Henderson.....	Dayton
Benjamin Wade Jenkins.....	Ashtabula
Kenneth Belknap Johnston, B.A.....	Columbus
Leslie Andrew Kindell.....	Columbus
Wilbur Roy Klein.....	Cleveland
Glenn Kreider.....	Newark
Moses Lane.....	Bowling Green
Richard Nye Larrimer.....	Columbus
Ernest Guthrie Littleton.....	Stout

\*Two Degrees

Richard Asa McClure.....	Toledo
William Moore McCulloch.....	Holmesville
Norman Lindsey McLean.....	Washington C. H.
*Raymond Alex MacFadyen.....	Columbus
Oliver Clayton Martin, B.A., B.Sc. in Edu.....	Cadiz
Edmund Louis Matz.....	Woodsfield
Robert Mellman.....	Columbus
Herbert Spencer Mendelsohn.....	Cleveland
Edgar William Norris, A.B. (Marietta College).....	Zanesville
Glenn Edward Offenbacher.....	Gaysport
Kenneth Henderson Pauley, B.A.....	Youngstown
Ralph John Rekart.....	Ottoville
Neill Rife, B.A.....	Circleville
Duane Rightmire.....	Mt. Vernon
Morgan William Roderick.....	Oak Harbor
Samuel Johann Roessler, B.A.....	Columbus
George Edward Schroth, Jr., B.Sc. in Bus. Adm.....	Tiffin
Harry Schwartz.....	Columbus
John Wood Seely.....	Waterford
Justin Leon Sillman.....	Columbus
Walter Richard Snider.....	Circleville
Dwight Alston Swisher, B.A.....	Columbus
Russell Webster Thomas.....	Akron
*Dean Wakefield Trott.....	Columbus
Louis Tucker.....	Columbus
Harold Herdman Voelker.....	Columbus
William Louis Weber, B.A.....	Zanesville
Howard H. Webster, B.Sc. in Bus. Adm.....	Columbus
Ralph Whorton Wilkins, A.B. (Ohio University).....	Frankfort
Starr Nehemiah Williams.....	Weston
Donald William Wiper, B.Sc. in Bus. Adm.....	Columbus
Alfred James Worsham, B.A.....	Piqua
Ben Henry Zwick.....	Cleveland

(Sixty-nine candidates)

## COLLEGE OF MEDICINE

Dean: EUGENE F. McCAMPBELL

## DOCTOR OF MEDICINE

Ernest Carey Alexander, A.B. (Wittenberg College).....	Springfield
William Kenneth Argabright, B.Sc.....	Waverly
Allen Steinwehr Avery.....	Akron
David D. Baden.....	Cleveland
John Bakos, B.A.....	Belle Valley
John Sydney Balliet.....	Milton, Pa.
Carl Homer Bayha, B.Sc.....	Columbus
Harry Wilbur Beck, B.Sc.....	McComb
William Anderson Bloom, B.Sc.....	Columbus
Boyd Cline Bly, B.A.....	West Unity
Arthur Wayne Boda.....	Mt. Victory
Fred Allison Bower.....	Bowerston
Wade Disler Bower, B.Sc.....	Columbus
James Richard Brandon.....	Columbus
Stowell Nelson Brown.....	Cadiz
John Ellis Conley, B.Sc.....	Van Wert
Abe Cowan.....	Columbus
John T. Craddock.....	Wellington
Johannie Hamill Czatt.....	Bowerston
Francis Ward Davis, B.Sc.....	Columbus

\*Two Degrees



Morris Deitchman.....	Youngstown
Melvin Edgerton Deuel.....	Chittenango, N. Y.
Roswell Schiedt Fidler, B.A.....	Columbus
Claudius Langdon Forney, B.A.....	Columbus
Frank Chauncey Fraillie, B.A.....	Ironton
Huston Fenn Fulton, B.A.....	Columbus
Mildred White Gardiner, B.A.....	Columbus
Roland Haven Good.....	Van Wert
Edward Williams Harris, B.Sc.....	Columbus
Harold Krauss Harris.....	Columbus
John Vandereau Horst, B.Sc.....	Columbus
Albert Kreider Howell.....	Troy
Gerhard Arthur Isselstein.....	Doanville
Roland Schuster Jauch, B.A. (Baldwin-Wallace College).....	Amherst
Louis Nicholas Jentgen, B.S. (Heidelberg University).....	Tiffin
William McKinley Johnston.....	East Springfield
Frank Henness Jones.....	Columbus
Roland Wynn Jones, B.S. (Mt. Union College).....	Alliance
Jacob Marvin Kahan.....	Cleveland
Lloyd Lavern Kersell.....	Columbus
Jay Clay Kloepfer.....	Columbus
Charlotte Elsbeth Kusta, B.A. (Western Reserve University College for Women), B.Sc.....	Cleveland
Ruskin Billings Lawyer.....	Cambridge
Lewis Lee Liggett, A.B. (Franklin College).....	Massillon
Claude Franklin Love.....	Chauncey
Bennie Lubitz, B.Sc.....	Bellaire
Roger Hoffman McCaughtry.....	Niles
Ila Alexander McCown.....	Greenville
Eugene Wayne Martz, B.S. (Denison University).....	Troy
Willis Beem Merrill.....	Columbus
Byron Eugene Neiswander.....	Rawson
Charles Ernest Newbold.....	Urbana
Ernest Thomas Pearson.....	West Milton
Edgar Pickard, B.Sc.....	Cuyahoga Falls
Robert Thomas Polling, B.A.....	Ansonia
Kenneth Emanuel Reighard, B.Sc.....	Columbus
John Henry Richardson, B.Sc.....	Spencerville
*Francis Augustus Riebel.....	Columbus
Charles Wilbur Scheib, B.S. (Denison University).....	Bucyrus
Frank Patrick Schubert, B.Sc.....	Ford City, Pa.
Jackson Searles, B.A.....	Columbus
Hubert Emerson Shafer, B.A.....	Croton
Jay Emerson Sharp, B.A.....	Columbus
Emerson Paul Shepard, B.Sc.....	Columbus
Donald Delmont Shontz, B.Sc.....	Leetonia
Ivan Campbell Smith.....	Columbus
Pearl Clifford Staker.....	Columbus
Harry Byron Stewart, B.A. (Muskingum College).....	Salesville
*Milton Anderson Strawbridge.....	Findlay
Sam Tamarkin.....	Youngstown
William Adrian Thomas, B.A.....	Salesville
John Ralph Turner.....	Sharon, Pa.
Edward Lawrence Voke, B.A.....	Columbus
Russell Hill Williams, B.S. (Denison University).....	Granville

(Seventy-four candidates)

\*Two Degrees

## THE OHIO STATE UNIVERSITY

## COLLEGE OF PHARMACY

Dean: CLAIR ALBERT DYE

## BACHELOR OF SCIENCE IN PHARMACY

Valeria Barbara Albert.....	Columbus
Ali May Giles.....	Springfield
Evlyn W. Gray.....	Bellefontaine
Walter Carver Grudier.....	Cambridge
Roger Francis Maize.....	Columbus
Daniel Carson Morison, B.S., (Wilberforce University).....	Cincinnati
William Alexander Morse.....	Cleveland
Lawrence Edward Schneider.....	Logan
Emerson William Weber.....	Ironton
Russell William Young.....	Columbus

(Ten candidates)

## COLLEGE OF VETERINARY MEDICINE

Dean: DAVID STUART WHITE

## DOCTOR OF VETERINARY MEDICINE

Francis William Babb.....	Williamsport
Fred Joseph Badger.....	Littleton, N. H.
Lawrence Dean Barrett.....	Leesburg
Ralph Clyde Bunker.....	Delta, Utah
Joseph Delaws Cozzens.....	Lucerne, Colo.
Oral Burl Curry.....	Greenfield, Ind.
Joseph Druckerman.....	New York, N. Y.
Clarence Benhard Erickson.....	Audubon, Minn.
Milton Reid Fisher.....	Paducah, Ky.
Harrie Earl Foster.....	Norwood
Claude Adair Henley.....	Jacksonville, Ill.
Bruce Kester.....	Dayton
Herman Joseph Kroger.....	Baton Rouge, La.
Fernand Joseph Lizana.....	New Orleans, La.
Everett Otis Lummis.....	Pamola, Ill.
William Francis Lyons.....	Coshocton
Floyd Alvin Mathew.....	Jerseyville, Ill.
Arthur Melvin Milliron.....	San Diego, Cal.
Neil Hayes Myers.....	Wilmington
Oscar Clay Richardson.....	Indianapolis, Ind.
Roy Joseph Rosselot.....	Pleasant Plain
Lewis Ellis Schweizer.....	Boston
George Oakley Shipley.....	Broadus, Mont.
Roy Emmitt Speck.....	Pendleton, Ind.
Clarence Warden Sprowls.....	Shreve
LeRoy Stauffer.....	Columbus
Emmett Dwight Turner.....	Harrod
Francis Lyle Vail.....	Canton, Minn.
Frank Elmo Wesley.....	Vernon, Okla.

(Twenty-nine candidates)

## PROFESSIONAL CERTIFICATES

## CERTIFICATE IN PUBLIC HEALTH NURSING

Jessie Flora Hindsale, R.N.....	Columbus
Mary Gladys Amelia Honeck, R.N.....	Napoleon
Florence Catherine Kempf, R.N.....	West Lafayette
Leora Belle Stroup, R.N.....	Windham

(Four candidates)



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## CERTIFICATE OF GRADUATE NURSE

Rhea Horner.....	Shelby
Freda Schacht.....	Canal Winchester
Mae Lois Stevenson.....	Canal Winchester
Alice E. Swain.....	Cincinnati
Martha Elizabeth Ellen Wright.....	Dover

(Five candidates)

## CERTIFICATE OF PHARMACEUTICAL CHEMIST

Samuel Seymour Adelman.....	Canton
Harry Edward Artz.....	Cleveland
Irvin Israel Baker.....	Cleveland
Lewis Joseph Bamberl.....	Sandusky
Herman Barnett.....	Canton
Raymond Harold Bartchy.....	Canton
Harold Lewis Bejcek.....	Cleveland
Rolland Brawley.....	Greenville
William Barkhurst Cheffy.....	Barnesville
Richard Russell Cosler.....	Dayton
William Luther Danner.....	Loudonville
Harry Diamond.....	Cleveland
Grace Leona Emig.....	Coshocton
Warren Rice Flanagan.....	Kenton
Melville John Fordyce.....	Cambridge
Daniel Edward Forman.....	Cleveland
Abram Freedman.....	Cleveland
Vernon Joyce Gasson.....	Kenton
Joseph Gilman.....	Cleveland
Edward Goodsmith.....	Cleveland
Elbert Sevier Gosseye.....	Bellaire
Sylvester Hersch Gottfried.....	Cleveland
Harry Raymond Hale.....	Xenia
Wilbert Joe Hall.....	Nelsonville
Chester Mearl Hauck.....	Bucyrus
Frank Pierre Hill.....	Columbus
Charles Anthony Hoffman.....	Ironton
Raymond Montford Jones.....	Portsmouth
Donald Bernard Kess.....	Cleveland
Donald Earle King.....	Canton
Nathan Ralph Kwait.....	Cleveland
William Russell Kwait.....	Cleveland
Lovell Glenn Leigh.....	Dayton
Albert London.....	Cleveland
John Joseph Luckhaupt.....	Columbus
Bernard Joseph McGory, Jr.....	Sandusky
George Alfred McLean.....	Mt Lebanon, Pa.
Paul Mitten Marty.....	Millersburg
Irvin Isadore Meister.....	Cleveland
Norwood Henry Meyer.....	Columbus
Edwin Isadore Miller.....	Cleveland
Louis Miller.....	Canton
Nathaniel Leonard Miller.....	Cleveland
Isadore Marshall Motoshefsky.....	Cleveland
Charles Homer Murlin.....	Bowling Green
Norman Thomas Peterson.....	Dayton
Meyer Reider.....	Cleveland
Lawrence Francis Ritzert.....	Woodsfield
Orville Josiah Roberts.....	Springfield
Nelson Rosenberg.....	Cleveland
Helen Louise Rudy.....	Columbus
Clarence William Schlobohm.....	Cleveland
Rudolph Herman Schneider.....	Cleveland
Harold Kennard Smith.....	Arcanum

Leonard Harold Stein.....	Cleveland
Sam Sol Stelmack.....	Cleveland
Harold Hughey Taylor.....	Leesburg
Paul Jared Thomas.....	La Grange, Ind.
Samuel Alvin Trotzky.....	Cleveland
Frank Gerard Weinberg.....	Cleveland
Clyde Venton Williams.....	East Palestine
Isadore Zavodnick.....	Cleveland

(Sixty-two candidates)

## SUMMARY OF DEGREES AND CERTIFICATES

1924-1925

## ANNUAL JUNE COMMENCEMENT

Graduate School.....	111
College of Agriculture.....	131
Applied Optics.....	11
College of Arts, Philosophy, and Science.....	196
College of Commerce and Journalism.....	129
College of Dentistry.....	22
College of Education.....	186
College of Engineering.....	168
College of Law.....	74
College of Medicine (74 degrees) (9 certificates).....	83
College of Pharmacy (10 degrees) (62 certificates).....	72
College of Veterinary Medicine.....	29
	1212
Degrees and certificates—Women.....	407
Degrees and certificates—Men.....	805
	1212
Candidates for degrees and certificates.....	1189
Candidates receiving two degrees.....	23
	1212

## AUGUST CONVOCATION—1924

Graduate School.....	81
College of Agriculture.....	16
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	42
College of Commerce and Journalism.....	25
College of Dentistry.....	5
College of Education.....	41
College of Engineering.....	7
College of Medicine (12 degrees) (1 certificate).....	13
	231
Degrees and certificates—Women.....	78
Degrees and certificates—Men.....	153
	231
Candidates for degrees and certificates.....	230
Candidates receiving two degrees.....	1
	231



## ANNUAL REPORT

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## DECEMBER CONVOCATION—1924

Graduate School.....	14
College of Agriculture.....	16
Applied Optics.....	1
College of Arts, Philosophy, and Science.....	23
College of Commerce and Journalism.....	18
College of Education.....	25
College of Engineering.....	5
College of Law.....	12
College of Medicine.....	3
College of Pharmacy (1 degree) (8 certificates).....	9
	<hr/>
	126
Degrees—Women.....	36
Degrees and certificates—Men.....	90
	<hr/>
	126
Candidates for degrees and certificates.....	125
Candidates receiving two degrees.....	1
	<hr/>
	126

## MARCH CONVOCATION—1925

Graduate School.....	18
College of Agriculture.....	33
College of Arts, Philosophy, and Science.....	26
College of Commerce and Journalism.....	16
College of Education.....	13
College of Engineering.....	18
College of Law.....	1
College of Pharmacy (1 degree) (5 certificates).....	6
	<hr/>
	131
Degrees—Women.....	23
Degrees and certificates—Men.....	108
	<hr/>
	131

## GRAND TOTAL FOR THE YEAR

Graduate School.....	224
College of Agriculture.....	196
Applied Optics.....	13
College of Arts, Philosophy, and Science.....	287
College of Commerce and Journalism.....	188
College of Dentistry.....	27
College of Education.....	265
College of Engineering.....	198
College of Law.....	87
College of Medicine (89 degrees) (10 certificates).....	99
College of Pharmacy (12 degrees) (75 certificates).....	87
College of Veterinary Medicine.....	29
	<hr/>
	1700
Degrees and certificates—Women.....	544
Degrees and certificates—Men.....	1156
	<hr/>
	1700
Candidates for degrees and certificates.....	1675
Candidates receiving two degrees.....	25
	<hr/>
	1700

## APPENDIX VIII

## RELIGIOUS CENSUS OF STUDENTS—1924-1925

Armenian .....	1	Lutheran .....	478
Baptist .....	400	Mennonite .....	4
Brethren .....	28	Methodist Episcopal.....	2774
Catholic .....	683	Free Methodist.....	2
Christian .....	198	Methodist Protestant.....	58
Christian Science.....	92	Southern Methodist.....	7
Church of Christ.....	220	Moravian .....	8
Church of God.....	7	Nazarene .....	3
Community .....	44	New Thought.....	2
Congregational .....	363	Presbyterian .....	1362
Disciple .....	30	Protestant .....	46
Episcopal .....	364	Quaker .....	7
Evangelical .....	95	Reform .....	140
Evangelical Protestant.....	10	Seventh Day Adventist.....	4
Friends .....	24	Theosophical Society.....	1
Greek Orthodox.....	7	Unitarian .....	12
Hindu .....	1	United Brethren.....	156
House of Jacob.....	1	United Presbyterian.....	95
Independent Protestant.....	15	Universalist .....	27
International Bible Student Assn.....	6	None Given.....	1565
Jewish .....	579		
Latter-Day Saints—Mormons.....	4	Total .....	9923

## OCCUPATIONAL CENSUS OF PARENTS AND GUARDIANS—1924-1925

Accountants, bookkeepers, clerks, etc.....	248	Dry cleaners.....	12
Advertising .....	15	Editors and newspapermen.....	36
Architects, draftsmen.....	22	Electricians .....	42
Army and Navy.....	9	Engineers (civil, mine, mechanical, etc.)..	201
Artisans .....	90	Farmers and ranchers .....	1178
Attorneys, judges, and statesmen.....	191	Fishermen .....	2
Auctioneers .....	2	Florists, Gardeners, nurserymen.....	60
Authors .....	1	Foremen .....	77
Automobile dealers.....	18	Garage and repairing.....	23
Bakers and confectioners.....	34	Glass workers.....	10
Bankers .....	85	Government, State, County, and Municipal employees .....	291
Barbers .....	45	Grain, hay, and lumber dealers.....	56
Blacksmiths .....	17	Grocers .....	117
Book binders .....	8	Hotel and restaurant owners and employees .....	21
Breeders of silver foxes.....	2	Inspectors .....	82
Brokers .....	45	Insurance .....	105
Business executives, managers, superintendents, secretaries.....	413	Interpreter .....	1
Business .....	67	Iron, steel, and metal workers and molders .....	86
Butchers and meat dealers.....	32	Janitors .....	24
Carpenters .....	118	Jewelers .....	29
Chauffeurs .....	1	Jobbers .....	10
Chefs, cooks.....	12	Junk dealers.....	16
Chemists .....	11	Laborers .....	71
Chiropodists .....	2	Laundrymen .....	4
Clergymen .....	131	Lecturers .....	2
Coal and ice dealers.....	27	Librarians .....	3
Contractors and builders.....	252	Liverymen and teamsters.....	1
Dairymen .....	33	Livestock .....	31
Decorators and painters.....	60	Machinists .....	89
Dentists .....	59	Manufacturers .....	170
Designers .....	12	Mechanics .....	78
Detectives .....	4	Merchants .....	552
Druggists and pharmacists.....	74	Metallurgists or Scientists.....	4



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Millers .....	31	School officials, professors, and teachers...	199
Mine operators and employees.....	23	Shoe repairers.....	23
Musicians and artists.....	22	Students .....	10
Oil producers and dealers.....	51	Tailors and seamstresses.....	79
Opticians and optometrists.....	19	Telegraph and telephone officials and oper-	
Osteopaths and chiropractors.....	6	ators .....	34
Peddlers .....	5	Theater .....	9
Photographers .....	9	Tool makers.....	13
Physicians, surgeons, nurses.....	225	Transfer and storage.....	18
Plumbers .....	19	Undertakers .....	12
Potters .....	6	Veterinarians .....	16
Printers and publishers.....	49	Watchmen .....	8
Professional athlete.....	1	Wholesalers .....	35
Radio operators.....	2	Y. M. and Y. W. C. A. and social workers	7
Railway, lake, river, and street railway		Mothers giving no occupation.....	733
officials, and employees.....	290	None given or deceased.....	1582
Real estate.....	167		
Retired .....	286	Total .....	9923
Salesmen .....	360		

## SUMMARY

## ENROLLMENT IN OHIO BY COUNTIES—1924-1925

Adams .....	13	Hamilton .....	113	Noble .....	16
Allen .....	72	Hancock .....	36	Ottawa .....	31
Ashland .....	23	Hardin .....	40	Paulding .....	22
Ashtabula .....	60	Harrison .....	37	Perry .....	40
Athens .....	36	Henry .....	15	Pickaway .....	71
Auglaize .....	49	Highland .....	41	Pike .....	23
Belmont .....	76	Hocking .....	30	Portage .....	51
Brown .....	18	Holmes .....	16	Preble .....	28
Butler .....	71	Huron .....	57	Putnam .....	35
Carroll .....	8	Jackson .....	27	Richland .....	60
Champaign .....	34	Jefferson .....	90	Ross .....	65
Clark .....	78	Knox .....	41	Sandusky .....	44
Clermont .....	13	Lake .....	45	Scioto .....	57
Clinton .....	30	Lawrence .....	30	Seneca .....	43
Columbiana .....	58	Licking .....	108	Shelby .....	21
Coshocton .....	41	Logan .....	62	Stark .....	151
Crawford .....	57	Lorain .....	95	Summit .....	135
Cuyahoga .....	979	Lucas .....	152	Trumbull .....	71
Darke .....	70	Madison .....	62	Tuscarawas .....	70
Defiance .....	24	Mahoning .....	151	Union .....	47
Delaware .....	78	Marion .....	63	Van Wert.....	32
Erie .....	53	Medina .....	35	Vinton .....	7
Fairfield .....	114	Meigs .....	22	Warren .....	8
Fayette .....	44	Mercer .....	33	Washington .....	53
Franklin .....	3831	Miami .....	71	Wayne .....	62
Fulton .....	28	Monroe .....	23	Williams .....	42
Gallia .....	29	Montgomery .....	222	Wood .....	39
Geauga .....	18	Morgan .....	35	Wyandot .....	27
Greene .....	39	Morrow .....	25		
Guernsey .....	57	Muskingum .....	96	Total .....	9325

## SUMMARY

## ENROLLMENT BY STATES AND FOREIGN COUNTRIES—1924-1925

Alabama .....	5	Indiana .....	78	North Carolina.....	4
Argentine Republic....	3	Iowa .....	8	Ohio .....	9325
Arkansas .....	1	Japan .....	4	Oklahoma .....	7
Armenia .....	1	Kansas .....	2	Pennsylvania .....	86
California .....	14	Kentucky .....	14	Peru .....	1
Canada .....	4	Korea .....	3	Philippine Islands.....	11
China .....	29	Louisiana .....	8	Rhode Island.....	1
Colombia, S. A.....	2	Maine .....	2	South Carolina.....	5
Colorado .....	9	Maryland .....	6	South Dakota.....	1
Connecticut .....	3	Massachusetts .....	17	Tennessee .....	3
District of Columbia...	11	Michigan .....	21	Texas .....	8
Dominican Republic....	2	Minnesota .....	3	Turkey .....	1
Egypt .....	1	Mississippi .....	5	Utah .....	3
Florida .....	4	Missouri .....	13	Vermont .....	2
Georgia .....	4	Montana .....	2	Virginia .....	8
Germany .....	1	Nebraska .....	4	West Virginia.....	75
Hawaii .....	3	New Hampshire .....	2	Wisconsin .....	3
Idaho .....	1	New Jersey.....	13	Wyoming .....	3
Illinois .....	32	New Mexico.....	2		
India .....	2	New York.....	37	Total .....	9923





